



## Model List for NovAtel

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*All prices shown are in U.S. dollars and F.C.A NovAtel Calgary. Prices outside of North America may vary due to importation tariffs and costs.*

*All prices, product descriptions, specifications, and models are subject to changes without notice. A complete summary of NovAtel's Standard Terms and Conditions is available upon request.*

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# GNSS Receiver Cards

NovAtel GNSS receiver cards offer world-class GNSS measurements and positioning accuracy. Scalable performance options make these receivers usable for a wide range of applications.

## OEM7® Receivers

The OEM7 receiver family includes the following hardware platforms: OEM7700, OEM7720, OEM719, OEM729. Those product lines can all support L-band delivered corrections from TerraStar. Firmware options include: RTK, Precise Point Positioning (PPP), ALIGN®, SPAN®. PPP capability is included free of charge on all RTK capable models. PPP enabled models have a maximum measurement and position rate of 20 Hz. DGPS, SBAS, RAIM, and GLIDE® are included standard on all models. OEM7 receiver models intended to be used as base station receivers must have RTK Tx functionality enabled. RTK rover models should always have the RTK Tx functionality enabled.

NOTE: Appendix 1 - Software Part Number Description contains details of the location and meaning of the options in the receiver software model name.

### OEM7720 Series

The OEM7720 receiver includes a high vibration oscillator on all cards.

#### OEM7720 Card

##### Card

##### Triple-Frequency

OEM7720-GFD-RZN-TBN

GPS+QZSS, L1/L2/L5, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM and tracks SBAS/QZSS/LBand.

##### Dual-Frequency

OEM7720-CDD-RYN-CBE

OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

OEM7720-CDD-RYN-TBE

OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

OEM7720-CDD-RYN-TBN

GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements

OEM7720-CDD-RZN-TBN

GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements

OEM7720-CDN-LNN-TMN

GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections

OEM7720-CDN-RNN-TBN

OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

OEM7720-CDN-RYN-TBN

OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements

OEM7720-DDD-LNN-TBE

GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

OEM7720-DDD-LYN-TNN

OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate

OEM7720-DDD-LZN-CMN

GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections

OEM7720-DDD-LZN-TBN

GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements

OEM7720-DDD-LZN-TME

GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection

OEM7720-DDD-LZN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-DDD-LZN-TNE	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Interference Mitigation and Spoofing Detection
OEM7720-DDD-LZN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7720-DDD-PZN-TBN	OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DDD-PZN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-DDD-PZN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7720-DDD-PZN-TNN-A	OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, NovAtel CORRECT PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, API
OEM7720-DDD-RYN-CBE	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7720-DDD-RYN-TBE-A	OEM7720, GPS+GLO, L1/L2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, API
OEM7720-DDD-RYN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DDD-RYN-TBN-A	OEM7720, GPS+GLO, L1/L2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
OEM7720-DDD-RZN-CBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DDD-RZN-TBE	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7720-DDD-RZN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DDN-LNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-DDN-LNN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7720-DDN-PNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DDN-PNN-TMN	OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-DDN-RNN-CBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DDN-RNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DDN-RYN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-FDD-LNN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

OEM7720-FDD-LNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-FDD-LZN-TMN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-FDD-LZN-TNN	OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7720-FDD-PNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-FDD-PZN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-FDD-RNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-FDD-RYN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7720-FDD-RYN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-FDD-RYN-TBN-A	OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
OEM7720-FDD-RZN-TBE	OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7720-FDD-RZN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-FDN-LNN-TNN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7720-FDN-RNN-TBN	OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-GDD-LNN-TMN	OEM7720, GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-GDD-LYN-TMN	OEM7720, GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-GDD-LZN-TBN	GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-GDD-LZN-TME	OEM7720, GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM7720-GDD-LZN-TMN	OEM7720, GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-GDD-LZN-TNN	GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7720-GDD-RYN-TBE	GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection



OEM7720-GDD-RYN-TBN	GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-GDD-RZN-CBN	GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-GDD-RZN-TBN	GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-GDN-LNN-TMN	OEM7720, GPS+QZSS, L1/L2, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-GDN-LNN-TNN	GPS+QZSS, L1/L2, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7720-GDN-RNN-TBN	OEM7720, GPS+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-GDN-RYN-TBN	OEM7720, GPS+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-JDD-LZN-TNN	GPS L1/L2, NavIC L5, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7720-JDD-RZN-TBN	GPS+QZSS L1/L2+NavIC L5, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM.
OEM7720-PDD-RYN-TBN	OEM7720, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-PDN-RNN-CBN	OEM7720, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-PDN-RNN-TBN	OEM7720, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-TDD-LZN-TMN	OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-TDD-LZN-TNE	OEM7720, GPS+GLO+GAL, L1/L2/E1/E5b, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Interference Mitigation
OEM7720-TDD-LZN-TNN	OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7720-TDD-RYN-TBE	OEM7720, GPS+GLO+GAL, L1/L2/E1/E5b, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation
OEM7720-TDD-RYN-TBN	OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-TDD-RZN-TBN	GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-TDD-RZN-TMN	GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-TDN-RNN-TBN	OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-WDD-LZN-TMN	OEM7720, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections

OEM7720-WDD-LZN-TNN	OEM7720, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7720-WDD-RZN-TBN	OEM7720, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
<b>Single-Frequency</b>	
OEM7720-CSN-LNN-TBN	GPS+GLO+BDS+QZSS, L1/E1/B1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DSN-LNN-TBN	OEM7720, GPS+GLO+QZSS, L1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7720-DSN-LNN-TMN	OEM7720, GPS+GLO+QZSS, L1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-DSN-LNN-TNN	GPS+GLO+QZSS, L1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7720-GSN-LNN-TMN	GPS+QZSS, L1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7720-GSN-LNN-TNN	GPS+QZSS, L1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7720-PSN-LNN-TBN	GPS+BDS+QZSS, L1/B1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM and tracks SBAS/QZSS/LBand. PLEASE NOTE: this configuration only activates 1 of the 2 antennas on this receiver.
OEM7720-PSN-LNN-TMN	OEM7720, GPS+BDS+QZSS, L1/B1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
<b>Other</b>	
01020014	OEM7720 Heat Spreader Accessory

**Warranty**

EW-1-T-OEM7720	One-year extended warranty for OEM7720 cards for purchase at time of sale.
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**OEM7700 Series**

The OEM7700 receiver includes a high vibration oscillator on all cards.

**OEM7700 Card****Card****Triple-Frequency**

OEM7700-CFN-RNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B2/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DFN-LNN-TBN	GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DFN-LNN-TMN	GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-DFN-RNN-TBN	GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-FFN-LNN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-FFN-LNN-TBE-A	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, API

OEM7700-FFN-LNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-FFN-LNN-TME	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM7700-FFN-PNN-TBN-A	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
OEM7700-FFN-PNN-TME-A	OEM7700, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation, API
OEM7700-FFN-PNN-TMN-A	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, NovAtel CORRECT PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, API
OEM7700-FFN-RNN-CBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-FFN-RNN-TBE	OEM7700, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation
OEM7700-FFN-RNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-GFN-LNN-TBN	OEM7700, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-GFN-LNN-TMN	OEM7700, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-TFN-LNN-TBN	GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-TFN-LNN-TME	GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM7700-TFN-LNN-TMN	GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-TFN-PNN-TBN	OEM7700, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-TFN-PNN-TMN	OEM7700, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-TFN-RNN-TBN	GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-WFN-LNN-CME	OEM7700, GPS+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
OEM7700-WFN-LNN-TME	OEM7700, GPS+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
OEM7700-WFN-LNN-TMN	GPS+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
<b>Dual-Frequency</b>	
OEM7700-CDN-LNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

OEM7700-CDN-LNN-TMN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-CDN-LYN-TNN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM7700-CDN-NZN-NNN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, ALIGN Heading
OEM7700-CDN-PNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-CDN-PNN-TMN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-CDN-RNN-CBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-CDN-RNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-CDN-RYN-CBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DDN-LNN-TBE	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-DDN-LNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DDN-LNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-DDN-LYN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM7700-DDN-LZN-CMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-DDN-LZN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7700-DDN-NZN-NNN	GPS+GLO+QZSS, L1/L2, SBAS L1, No Positioning, ALIGN Heading
OEM7700-DDN-PNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DDN-PNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-DDN-RNN-CBE	OEM7700, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-DDN-RNN-CBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DDN-RNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DDN-RYN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DDN-RZN-CBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-FDN-LNN-TBN	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-FDN-LNN-TME	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection



OEM7700-FDN-LNN-TMN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-FDN-PNN-TBE	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-FDN-PNN-TME	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM7700-FDN-PNN-TMN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-FDN-RNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-GDN-LNN-CBN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-GDN-LNN-TBE	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-GDN-LNN-TBN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-GDN-LNN-TME	OEM7700, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM7700-GDN-LNN-TMN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-GDN-LZN-TNN	OEM7700, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM7700-GDN-PNN-TBN	GPS+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-GDN-RNN-TBN	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-GDN-RYN-TBN	OEM7700, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-PDN-LNN-TBN	GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-PDN-RNN-TBN	OEM7700, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-TDN-LNN-TMN	OEM7700, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-TDN-RNN-TBN	OEM7700, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-WDN-LNN-TMN	GPS+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-WDN-LZN-TMN	GPS+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
<b>Single-Frequency</b> OEM7700-CSN-LNN-TBN	OEM7700, GPS+GLO+BDS+QZSS, L1/E1/B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-CSN-LNN-TMN	GPS+GLO+BDS+QZSS, L1/E1/B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections

OEM7700-DSN-LNN-CBN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DSN-LNN-TBE	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-DSN-LNN-TBN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-DSN-LNN-TNN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7700-FSN-LNN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/E1/B1, NavIC L5, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-FSN-LNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/E1/B1, NavIC L5, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-FSN-LNN-TMN	GPS+GLO+GAL+BDS+QZSS, L1/E1/B1, NavIC L5, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-GSN-LNN-TBE	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM7700-GSN-LNN-TBN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-GSN-LNN-TMN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7700-GSN-LNN-TNN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7700-JSN-LNN-TMN	GPS L1, NavIC L5, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections Includes GLIDE & RAIM, tracks LBand.
OEM7700-PSN-LNN-TBN	OEM7700, GPS+BDS+QZSS, L1/B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-TSN-LNN-TBN	OEM7700, GPS+GLO+GAL, L1/E1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7700-WSN-LNN-TNN	GPS+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7700H-GSN-LNN-TBN-H	*CG* GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, High Speed Includes GLIDE & RAIM.

### Cable

01019599	TNC Bulkhead to MMBX Right Angle 16 cm RF Cable, fits in 7mm board to board gap
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### Other

01019750	7mm Mounting Rails for OEM719/OEM7700/OEM7720
01019751	10mm Mounting Rails for OEM719/OEM7000/OEM7720
01019752	12mm Mounting Rails for OEM719/OEM7700/OEM7720

### Warranty

EW-1-T-OEM7700	One-year extended warranty for OEM7700 cards for purchase at time of sale.
EW-2-T-OEM7700	Two-year extended warranty for OEM7700 cards for purchase at time of sale.
EW-3-T-OEM7700	Three-year extended warranty for OEM7700 cards for purchase at time of sale.

**OEM7600 Series****OEM7600 Card****Card****Triple-Frequency**

OEM7600-GFN-LNN-TMN	OEM7600, GPS+QZSS, L1/L2/L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-GFN-PNN-TBN	GPS+QZSS, L1/L2/L5, SBAS L1/L5, NovAtel CORRECT PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM and tracks LBand. PLEASE NOTE: TerraStar C service requires GPS + GLONASS to meet published resolve times.

**Dual-Frequency**

OEM7600-CDN-LNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-CDN-LNN-TMN	OEM7600, GPS+GLO+BDS+QZSS, L1/L2/B1/B2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-CDN-LYN-TMN	OEM7600, GPS+GLO+BDS+QZSS, L1/L2/B1/B2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-CDN-LZN-TMN	OEM7600, GPS+GLO+BDS+QZSS, L1/L2/B1/B2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-CDN-PNN-TMN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-CDN-RNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-DDN-LNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-DDN-LNN-TMN	OEM7600, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-DDN-PNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-DDN-RNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-DDN-RYN-TBN	OEM7600, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-FDN-LNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-FDN-LNN-TME	OEM7600, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM7600-FDN-LNN-TMN	OEM7600, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-FDN-PNN-TMN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-FDN-PNN-TNN	OEM7600, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7600-FDN-RNN-TBE	OEM7600, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

OEM7600-FDN-RNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-FDN-RYN-CBE-A	OEM7600, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, API
OEM7600-GDN-LNN-TBN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-GDN-LNN-TMN	OEM7600, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-GDN-RNN-TBN	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-TDN-LNN-TBN	GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-TDN-RNN-TBN	GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-WDN-RNN-TBN	GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
<b>Single-Frequency</b>	
OEM7600-DSN-LNN-TBN	OEM7600, GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-DSN-LNN-TMN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-DSN-LNN-TNN	OEM7600, GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7600-FSN-LNN-TMN	OEM7600, GPS+GLO+GAL+BDS, L1/E1/B1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-FSN-LNN-TNE	OEM7600, GPS+GLO+GAL+BDS, L1/E1/B1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Interference Mitigation
OEM7600-GSN-LNN-TBN	OEM7600, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM7600-GSN-LNN-TMN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM7600-GSN-LNN-TNN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM7600H-GSN-LNN-TBN-H	*CG* GPS+QZSS, L1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, High Speed

## OEM719 Series

The OEM719 receiver includes a high vibration oscillator on all cards.

### OEM719 Card

#### Card

OEM719-GSN-NNN-NNN	Hardware only, requires firmware upgrade to produce output
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#### Triple-Frequency

OEM719-CFN-PNN-TBN	OEM719, GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B2I/B2b/B2a/B3, SBAS L1/L5, NovAtel CORRECT PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-CFN-RNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B2I/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DFN-NZN-NNN	GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, No Positioning, ALIGN Heading

OEM719-DFN-RNN-TBN	GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-FFN-LNN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-FFN-LNN-TBE-A	OEM719, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, API
OEM719-FFN-LNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-FFN-LNN-TMN	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-FFN-RNN-CBE	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-FFN-RNN-TBE	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-FFN-RNN-TBF	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5 RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Sprinkler + Interference Mitigation + Spoofing Detection Includes GLIDE & RAIM.
OEM719-FFN-RNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-GFN-LNN-TME	OEM719, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM719-GFN-LNN-TMN	GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-TFN-LNN-TBN	GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-TFN-LNN-TMN	OEM719, GPS+GLO+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-WFN-LNN-TMN	GPS+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
<b>Dual-Frequency</b>	
OEM719-CDN-LNN-TMN	OEM719, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-CDN-LYN-TNN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM719-CDN-PNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-CDN-RNN-CBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-CDN-RNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-LNN-CMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections



OEM719-DDN-LNN-TBE	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-DDN-LNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-LNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-DDN-LNN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM719-DDN-LYN-CMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-DDN-LYN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-LYN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-DDN-LYN-TNE	OEM719, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Interference Mitigation and Spoofing Detection
OEM719-DDN-LYN-TNE-H	OEM719, GPS+GLO, L1/L2, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Interference Mitigation, High Speed
OEM719-DDN-LYN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM719-DDN-LZN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-LZN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM719-DDN-NZN-NNN	GPS+GLO+QZSS, L1/L2, SBAS L1, No Positioning, ALIGN Heading
OEM719-DDN-PNN-CMN	OEM719, GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-DDN-PNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-PNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-DDN-PNN-TNE	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Interference Mitigation and Spoofing Detection
OEM719-DDN-PNN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM719-DDN-PYN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-PZN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-RNN-CBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-RNN-TBE	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-DDN-RNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-DDN-RYN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements

OEM719-DDN-RZN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-FDN-LNN-TBN	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-FDN-LNN-TBN-H	OEM719, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, High Speed
OEM719-FDN-LNN-TMN	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-FDN-LYN-TNN	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM719-FDN-NZN-NNN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, ALIGN Heading
OEM719-FDN-RNN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-FDN-RNN-TBN	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-FDN-RYN-CBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-GDN-LNN-CMN	OEM719, GPS, L1/L2, Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-GDN-LNN-TBE	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-GDN-LNN-TBN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-GDN-LNN-TME	OEM719, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM719-GDN-LNN-TMN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-GDN-LNN-TNN	OEM719, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM719-GDN-LYN-TNN	OEM719, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM719-GDN-LZN-TNN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM719-GDN-NZN-NNN	OEM719, GPS+QZSS, L1/L2, SBAS L1, ALIGN Heading
OEM719-GDN-PNN-TBN	GPS+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-GDN-RNN-CBN	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-GDN-RNN-TBN	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-GDN-RYN-TBN	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-PDN-LNN-TBN	OEM719, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-PDN-LYN-TMN	GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections

OEM719-PDN-RNN-TBN	GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-TDN-LNN-TBN	OEM719, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-TDN-LNN-TMN	GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-TDN-LNN-TMN-H	OEM719, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, High Speed
OEM719-TDN-NZN-NNN	OEM719, GPS+GLO+GAL, L1/L2/E1/E5b, ALIGN Heading
OEM719-TDN-RNN-TBN	OEM719, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-TDN-RYN-CBE	GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-TDN-RYN-TBN	OEM719, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-WDN-LNN-TBN	GPS+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-WDN-LNN-TMN	GPS+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-WDN-RYN-TBE	OEM719, GPS+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-WDN-RYN-TBN	OEM719, GPS+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
<b>Single-Frequency</b>	
OEM719-DSN-LNN-CNN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate
OEM719-DSN-LNN-TBE	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-DSN-LNN-TNN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM719-FSN-LNN-CBE	GPS+GLO+GAL+BDS+QZSS, L1/E1/B1, NavIC L5, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-FSN-LNN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/E1/B1, NavIC L5, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-GSN-LNN-5NN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 5 Hz Data Output Rate
OEM719-GSN-LNN-CNN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate
OEM719-GSN-LNN-TBE	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719-GSN-LNN-TBN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-GSN-LNN-TMN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-GSN-LNN-TNN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate

OEM719-PSN-LNN-TMN	GPS+BDS+QZSS, L1/B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-PSN-LNN-TNN	GPS+BDS+QZSS, L1B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM719-TSN-LNN-TBE	OEM719, GPS+GLO+GAL, L1/E1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation
OEM719-TSN-LNN-TBN	GPS+GLO+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719-TSN-LNN-TBN-H	*CG* GPS+GLO+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, High Speed Includes GLIDE & RAIM.
OEM719-TSN-LNN-TME	GPS+GLO+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM719-TSN-LNN-TMN	GPS+GLO+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-WSN-LNN-TME	OEM719, GPS+GAL, L1/E1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
OEM719-WSN-LNN-TME-H	OEM719, GPS+GAL, L1/E1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation, High Speed
OEM719-WSN-LNN-TMN	OEM719, GPS+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719-WSN-LNN-TMN-H	OEM719, GPS+GAL, L1/E1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, High Speed
OEM719H-GSN-LNN-TBN-H	*CG* GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, High Speed

### Other

01019750	7mm Mounting Rails for OEM719/OEM7700/OEM7720
01019751	10mm Mounting Rails for OEM719/OEM7000/OEM7720
01019752	12mm Mounting Rails for OEM719/OEM7700/OEM7720

### Warranty

EW-1-T-OEM719	One-year extended warranty for OEM719 cards for purchase at time of sale.
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## OEM719C Card

### Card

#### Dual-Frequency

OEM719C-DDN-PNN-TMN	Conformal coated OEM719. GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
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#### Single-Frequency

OEM719C-DSN-LNN-TBN	Conformal coated OEM719. GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719C-DSN-LNN-TMN	Conformal coated OEM719. GPS+GLO+QZSS, L1, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719C-GSN-LNN-TMN	Conformal coated OEM719. GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719C-GSN-LNN-TNN	Conformal coated OEM719. GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate

**OEM719A Card****Card****Triple-Frequency**

OEM719A-FFN-LNN-CMN-A	OEM719A, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections, API
OEM719A-FFN-LNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719A-FFN-RNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

**Dual-Frequency**

OEM719A-DDN-LNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-DDN-PNN-TMN	OEM719A, GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-FDN-LNN-TBE	OEM719A, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM719A-FDN-LNN-TMN	OEM719A, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-FDN-PNN-TMN	OEM719A, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-GDN-LNN-CMN	OEM719A, GPS, L1/L2, Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-GDN-LNN-TBN	OEM719A, GPS, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719A-GDN-LNN-TMN	OEM719A, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-GDN-LZN-TMN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-GDN-LZN-TNN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM719A-GDN-RNN-TBN	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719A-WDN-RYN-CBN	GPS+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements

**Single-Frequency**

OEM719A-DSN-LNN-CNN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate
OEM719A-DSN-LNN-TME	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM719A-DSN-LNN-TMN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-DSN-LNN-TNN	OEM719A, GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM719A-GSN-LNN-TBN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719A-GSN-LNN-TME-H	OEM719A, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection, High Speed



OEM719A-GSN-LNN-TMN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-PSN-LNN-TNN	OEM719A, GPS+BDS+QZSS, L1/B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM719A-TSN-LNN-TBN	GPS+GLO+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719A-WSN-LNN-TMN	OEM719A, GPS+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719A-WSN-LNN-TMN-H	OEM719A, GPS+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, High Speed
OEM719AH-GSN-LNN-TBN-H	*CG* GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, High Speed

## OEM719B Card

### Card

#### Triple-Frequency

OEM719B-CFN-LNN-TBN	OEM719B, GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B2I/B2b/B2a/B3, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719B-DFN-RNN-TBN	GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

#### Dual-Frequency

OEM719B-DDN-LNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719B-DDN-LNN-TMN	OEM719B, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719B-GDN-LZN-TMN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719B-GDN-LZN-TNN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate

#### Single-Frequency

OEM719B-GSN-LNN-TBN	OEM719B, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM719B-GSN-LNN-TMN	OEM719B, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719B-TSN-LNN-TME	OEM719B, GPS+GLO+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM719B-WSN-LNN-TMN	OEM719B, GPS+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM719BH-GSN-LNN-TMN-H	*CG* GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, High Speed

## OEM729 Series

The OEM729 receiver includes a high vibration oscillator on all cards.

### OEM729 Card

#### Card

#### Triple-Frequency

OEM729-CFN-LNN-TNN	OEM729, GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B2I/B2b/B2a/B3, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate
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OEM729-CFN-RNN-CBN	GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B2/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-CFN-RNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B2/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DFN-LNN-TBE	OEM729, GPS+GLO, L1/L2/L3/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation
OEM729-DFN-LNN-TBN	GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DFN-LNN-TBN-A	GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
OEM729-DFN-PNN-CME-A	OEM729, GPS+GLO, L1/L2/L3/L5, NovAtel CORRECT PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation, API
OEM729-DFN-PNN-CMN	OEM729, GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-DFN-PNN-CMN-A	OEM729, GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, NovAtel CORRECT PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections, API
OEM729-FFN-LNN-CBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-FFN-LNN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM729-FFN-LNN-TBE-A	OEM729, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, API
OEM729-FFN-LNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-FFN-LNN-TMN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-FFN-LNN-TMN-A	OEM729, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, API
OEM729-FFN-PNN-TME	OEM729, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM729-FFN-PNN-TMN	OEM729, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-FFN-RNN-CBN	OEM729, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-FFN-RNN-TBE	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM729-FFN-RNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-FFN-RYN-CBE-A	OEM729, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, API
OEM729-FFN-RYN-TBE	OEM729, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation

OEM729-FFN-RYN-TBN	OEM729, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GFN-LNN-TBN	OEM729, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GFN-RNN-TBN	OEM729, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-PFN-LYN-TBN	GPS+BDS+QZSS, L1/L2/L5/L6/B1/B2/B2b/B2a/B3, SBAS L1/L5 Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM.
OEM729-PFN-RNN-TBN	GPS+BDS+QZSS, L1/L2/L5/L6/B1/B2/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-TFN-LNN-TBN	GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-TFN-LNN-TBN-A	OEM729, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
OEM729-TFN-LNN-TMN	OEM729, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-TFN-PNN-TBN	OEM729, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, NovAtel CORRECT PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-TFN-PNN-TMN	OEM729, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-TFN-RNN-TBN	GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5 RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM
OEM729-WFN-LNN-TMN	GPS+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
<b>Dual-Frequency</b>	
OEM729-CDN-LNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-CDN-LNN-TMN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-CDN-LYN-TMN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-CDN-LYN-TNN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM729-CDN-LZN-TMN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-CDN-PNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-CDN-RNN-CBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-CDN-RNN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-CDN-RYN-CBN	OEM729, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-CDN-RZN-CBN	OEM729, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 100 Hz Data Output Rate, Base Station Corrections + Measurements

OEM729-CDN-RZN-TBN	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DDN-LNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DDN-LNN-TBN-A	OEM729, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
OEM729-DDN-LNN-TME	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM729-DDN-LNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-DDN-LYN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-DDN-LYN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM729-DDN-LZN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-DDN-LZN-TNN	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
OEM729-DDN-NZN-NNN	GPS+GLO+QZSS, L1/L2, SBAS L1, No Positioning, ALIGN Heading
OEM729-DDN-PNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DDN-PNN-TMN	GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-DDN-PNN-TMN-A	OEM729, GPS+GLO+QZSS, L1/L2, SBAS L1, NovAtel CORRECT PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, API
OEM729-DDN-PYN-TBN	OEM729, GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DDN-RNN-CBN	OEM729, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DDN-RNN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DDN-RYN-TBN	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-FDN-LNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-FDN-LNN-TMN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-FDN-LYN-TNN	OEM729, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate
OEM729-FDN-PNN-TMN	OEM729, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, NovAtel CORRECT PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-FDN-RNN-TBN	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GDN-LNN-TBE	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

OEM729-GDN-LNN-TBE-H	*CG* GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, High Speed Includes GLIDE & RAIM.
OEM729-GDN-LNN-TBN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GDN-LNN-TMN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-GDN-LYN-TBN	GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GDN-PNN-TBN	GPS+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GDN-RNN-TBE	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM729-GDN-RNN-TBN	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GDN-RNN-TBN-A	OEM729, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
OEM729-GDN-RYN-TBE	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM729-GDN-RYN-TBN	OEM729, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-PDN-LNN-TBN	OEM729, GPS+BDS, L1/L2/B1/B2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-PDN-RNN-TBN	GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-TDN-LNN-TBN	OEM729, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-TDN-LNN-TMN	OEM729, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-TDN-LZN-TBN	OEM729, GPS+GLO+GAL, L1/L2/E1/E5b, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-TDN-PNN-TBN	OEM729, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-TDN-PNN-TMN	GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-TDN-RNN-TBN	GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-TDN-RYN-TBN	OEM729, GPS+GLO+GAL, L1/L2/E1/E5b, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-WDN-LNN-TBN	GPS+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
<b>Single-Frequency</b>	
OEM729-CSN-LNN-TMN	OEM729, GPS+GLO+BDS+QZSS, L1/E1/B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-DSN-LNN-CNN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate
OEM729-DSN-LNN-TBE	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection



OEM729-DSN-LNN-TBN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-DSN-LNN-TME	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
OEM729-DSN-LNN-TMN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-DSN-LNN-TNN	GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM729-GSN-LNN-CBN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GSN-LNN-TBE	OEM729, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
OEM729-GSN-LNN-TBN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-GSN-LNN-TMN	GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
OEM729-GSN-LNN-TNN	OEM729, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
OEM729-PSN-LNN-TBN	OEM729, GPS+BDS+QZSS, L1/B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729-WSN-LNN-TBN	GPS+GAL+QZSS, L1/E1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729H-GSN-LNN-TBN-H	*CG* GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, High Speed

### Warranty

EW-1-T-OEM729	One-year extended warranty for OEM729 cards for purchase at time of sale.
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### OEM729C Card

#### Card

##### Dual-Frequency

OEM729C-GDN-LNN-TBN	Conformal coated OEM729. GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
OEM729C-GDN-PNN-TBN	Conformal coated OEM729. GPS+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

##### Single-Frequency

OEM729C-GSN-LNN-TMN	Conformal coated OEM729. GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
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### OEM7 Development Kit

#### OEM7 Development Kit

##### Other

OEM7-DEV-KIT	Development Kit for evaluating OEM7 GNSS receivers with 60-pin header. Works with OEM7700 and OEM7720
OEM7-DEV-KIT-INTERPOSER	Interposer board for OEM7 development kit to allow connection to backwards compatible cards. Works with OEM719 series and OEM729.
OEM7-DEV-KIT-INTERPOSER-7600	Interposer board for OEM7 development kit to allow connection and proper mounting to OEM7600 cards.

# GNSS Enclosure Receivers

Receiver enclosures provide rugged and easy-to-integrate GNSS functionality at a range of performance levels.

## MarinePak

### MarinePak7 Enclosure

#### Enclosure

MP7720-DDD-PZN-TMN-A	MarinePak7 enclosure. GPS+GLO, L1/L2, Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements Only, No Base Station Corrections
MP7720-DDD-RZN-TBN-A	MarinePak7 enclosure. GPS+GLO, L1/L2, RTK+Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements and Base Station Corrections.
MP7720-DDD-RZN-TBN-P3-A	MarinePak7 enclosure. GPS+GLO, L1/L2, RTK+Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements and Base Station Corrections, SPAN Enabled, Profiles/Heave enabled, High grade tactical.
MP7720-DDN-PNN-TMN-A	MarinePak7 enclosure. GPS+GLO, L1/L2, Oceanix PPP+Single Point+DGPS PNT, 20Hz Data Output Rate, Measurements Only, No Base Station Corrections
MP7720-DDN-RNN-TBN-A	MarinePak7 enclosure. GPS+GLO, L1/L2, RTK+Oceanix PPP+Single Point+DGPS PNT, 20Hz Data Output Rate, Measurements and Base Station Corrections
MP7720-FDD-PZN-TMN-A	MarinePak7 enclosure. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements Only, No Base Station Corrections
MP7720-FDD-RZN-TBN-A	MarinePak7 enclosure. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements and Base Station Corrections
MP7720-FDD-RZN-TBN-P3-A	MarinePak7 enclosure. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements and Base Station Corrections, SPAN Enabled, Profiles/Heave enabled, High grade tactical.
MP7720-FDN-PNN-TMN-A	MarinePak7 enclosure. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Oceanix PPP+Single Point+DGPS PNT, 20Hz Data Output Rate, Measurements Only, No Base Station Corrections
MP7720-FDN-RNN-TBN-A	MarinePak7 enclosure. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+Oceanix PPP+Single Point+DGPS PNT, 20Hz Data Output Rate, Measurements and Base Station Corrections
MP7720U-DDD-PZN-TMN-A	MarinePak7 enclosure with UHF. GPS+GLO, L1/L2, Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements Only, No Base Station Corrections
MP7720U-DDD-RZN-TBN-A	MarinePak7 enclosure with UHF. GPS+GLO, L1/L2, RTK+Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements and Base Station Corrections.
MP7720U-DDD-RZN-TBN-P3-A	MarinePak7 enclosure with UHF. GPS+GLO, L1/L2, RTK+Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements and Base Station Corrections, SPAN Enabled, Profiles/Heave enabled, High grade tactical.
MP7720U-DDN-PNN-TMN-A	MarinePak7 enclosure with UHF. GPS+GLO, L1/L2, Oceanix PPP+Single Point+DGPS PNT, 20Hz Data Output Rate, Measurements Only, No Base Station Corrections
MP7720U-DDN-RNN-TBN-A	MarinePak7 enclosure with UHF. GPS+GLO, L1/L2, RTK+Oceanix PPP+Single Point+DGPS PNT, 20Hz Data Output Rate, Measurements and Base Station Corrections
MP7720U-FDD-PZN-TMN-A	MarinePak7 enclosure with UHF. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements Only, No Base Station Corrections
MP7720U-FDD-RZN-TBN-A	MarinePak7 enclosure with UHF. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements and Base Station Corrections
MP7720U-FDD-RZN-TBN-P3-A	MarinePak7 enclosure with UHF. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+Oceanix PPP+Single Point+DGPS PNT, ALIGN Heading, 20Hz Data Output Rate, Measurements and Base Station Corrections, SPAN Enabled, Profiles/Heave enabled, High grade tactical.

MP7720U-FDN-PNN-TMN-A	MarinePak7 enclosure with UHF. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Oceanix PPP+Single Point+DGPS PNT, 20Hz Data Output Rate, Measurements Only, No Base Station Corrections
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MP7720U-FDN-RNN-TBN-A	MarinePak7 enclosure with UHF. GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+Oceanix PPP+Single Point+DGPS PNT, 20Hz Data Output Rate, Measurements and Base Station Corrections
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### Other

12023325	V560 marine antenna, L1/L2/L5 GPS, L1/L2/L3 GLONASS, B1/B2/B3 BeiDou, E1/E5/E6 Galileo, L-band, MSK Beacon, Inmarsat Rejection, IEC 60945 Certified, TNC Connector
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## MarinePak7 Accessory

### Cable

60323153	12-pin LEMO high density expansion port/event cable for MarinePak7 receiver
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60423065	SMA to BNC Pulse Per Second cable (17cm) for MarinePak7 receiver
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60723207	RJ45 to RJ45 Ethernet cable (2m) for MarinePak7 receiver
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60723208	DB9 to DB9 serial data cable (2m) for MarinePak7 receiver
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### Other

40023144	MarinePak7 Power Supply Unit (4-pin LEMO)
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40123423	MarinePak7 7.2 VDC Li-ion battery pack
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60723209	UK power supply cable (2m) for MarinePak7 receiver
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60723210	US power supply cable (2m) for MarinePak7 receiver
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60723211	EU power supply cable (2m) for MarinePak7 receiver
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60754003	External DC Power Cable Fly Lead for MarinePak7 receiver
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## OEM7® Receivers

The OEM7 receiver family includes the following hardware platforms: OEM7700, OEM7720, OEM719, OEM729. Those product lines can all support L-band delivered corrections from TerraStar. Firmware options include: RTK, Precise Point Positioning (PPP), ALIGN®, SPAN®. PPP capability is included free of charge on all RTK capable models. PPP enabled models have a maximum measurement and position rate of 20 Hz. DGPS, SBAS, RAIM, and GLIDE® are included standard on all models. OEM7 receiver models intended to be used as base station receivers must have RTK Tx functionality enabled. RTK rover models should always have the RTK Tx functionality enabled.

NOTE: Appendix 1 - Software Part Number Description contains details of the location and meaning of the options in the receiver software model name.

### PwrPak7D Enclosure

#### Enclosure

##### Triple-Frequency

PW7720-GFD-LZN-CBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2/L5, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 100 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-GFD-LZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2/L5, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-MFD-RYN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/B1/B2/B2b/B2a, NavIC L5, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-MFD-RYN-TBN-A	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2b/B2a, NavIC L5, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7720-MFD-RZN-TBF	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2a/B2b, NavIC L5, SBAS L1/L5 Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Sprinkler + Interference Mitigation + Spoofing Detection
PW7720-MFD-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2b/B2a, NavIC L5, SBAS L1, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-WFD-LZN-TBE	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GAL+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-WFD-LZN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GAL+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-WFD-RYN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GAL+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements

##### Dual-Frequency

PW7720-CDD-LZN-TNE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Interference Mitigation and Spoofing Detection
PW7720-CDD-LZN-TNN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
PW7720-CDD-PZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+BDS, L1/L2/B1/B2, Dual Antenna Activation, NovAtel CORRECT PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements

PW7720-CDD-RYN-TBE-P2	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-CDD-RYN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-CDD-RYN-TBN-A	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7720-CDD-RZN-TBE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-CDD-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-DDD-LYN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-DDD-LZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-DDD-LZN-TME	PwrPak7D dual antenna enclosure containing OEM7720GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
PW7720-DDD-LZN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-DDD-LZN-TNN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
PW7720-DDD-PYN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-DDD-PZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-DDD-PZN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-DDD-PZN-TNN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
PW7720-DDD-RYN-CBE	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-DDD-RYN-CBN	PwrPak7D dual antenna enclosure containing OEM7720GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-DDD-RYN-TBE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-DDD-RYN-TBE-P2	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO, L1/L2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical

PW7720-DDD-RYN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-DDD-RYN-TBN-A	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7720-DDD-RZN-TBE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-DDD-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-DDD-RZN-TBN-A	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7720-DDN-LZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO, L1/L2, Single Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-DDN-LZN-TNN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
PW7720-DDN-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-DSN-LNN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-FDD-LYN-CBE	PwrPak7D dual antenna enclosure containing OEM7720GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-FDD-LYN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-FDD-LZN-TME	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
PW7720-FDD-LZN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-FDD-LZN-TNN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
PW7720-FDD-PZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-FDD-PZN-TME	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, NovAtel CORRECT PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
PW7720-FDD-RYN-CBE-A	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, API



PW7720-FDD-RYN-TBE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-FDD-RYN-TBE-A	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, API
PW7720-FDD-RYN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-FDD-RYN-TBN-P3	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720-FDD-RZN-TBE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-FDD-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-FDN-RZN-TBE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-FDN-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-GDD-LYN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-GDD-LZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-GDD-LZN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-GDD-LZN-TNN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate
PW7720-GDD-PZN-TMN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS +PPP, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections. Note TerraStar C service requires GPS+GLONASS to meet published resolve times.
PW7720-GDD-RYN-TBE-P3	PwrPak7D dual antenna enclosure containing OEM7720, GPS, L1/L2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720-GDD-RYN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-GDD-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements

PW7720-GDN-LNN-TBN	PwrPak7D dual antenna enclosure containing OEM7720 with only one antenna activated. GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-GDN-RNN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-PDD-RYN-TBE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-TDD-PZN-TMN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-TDD-RZN-CBE	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-TDD-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720-WDD-LZN-TBE	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7720-WDD-LZN-TMN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7720-WDD-RYN-TBE-P4	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GAL, L1/L2/E1/E5b, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Navigation Grade
PW7720-WDD-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720E2-PDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM and tracks SBAS/QZSS/LBAND.
PW7720M-DDD-LZN-TNN	PwrPak7DM dual antenna enclosure containing OEM7720, no Wi-Fi, no internal storage. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate Includes GLIDE & RAIM.
PW7720M-DDD-PZN-TMN	PwrPak7DM dual antenna enclosure containing OEM7720, no Wi-Fi, no internal storage. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections Includes GLIDE & RAIM.
PW7720M-DDN-RZN-TBN	PwrPak7DM dual antenna enclosure containing OEM7720, with no Wi-Fi, no internal storage, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7720M-GDD-RYN-TBE-P3	PwrPak7D dual antenna enclosure containing OEM7720, no Wi-Fi, no internal storage. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), High Grade Tactical IMU  Includes GLIDE & RAIM.
PW7720M-GDD-RYN-TBN	PwrPak7DM dual antenna enclosure containing OEM7720, no Wi-Fi, no internal storage. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM.

PW7720M-GDN-RZN-TBN	PwrPak7D dual antenna enclosure containing OEM7720, no Wi-Fi, no internal storage. GPS+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM.
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**Single-Frequency**

PW7720-GSN-LNN-TNN	PwrPak7D dual antenna enclosure containing OEM7720GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
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**Cable**

01020004	PwrPak7 Family All I/O Cable. This cable provides access to all of the signals available on the PwrPak7 family DB26 connector. It is a DB26 to 3 DB9 and 1 DB15 connectors. It also supports direct connection to SPAN IMU through Com2. 30cm
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01020005	PwrPak7 DB15 to all event lines cable. This cable connects to PwrPak7 all I/O cable 01020004 DB15 connector and breaks out to all event lines (including PPS and CAN). 2m
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**Warranty**

EW-1-A-PW7720	One-year extended warranty for PwrPak7D enclosures for purchase after sale of product
EW-1-T-PW7720	One-year extended warranty for PwrPak7D enclosures for purchase at time of sale
EW-1-T-PW7720M	One-year extended warranty for PwrPak7D with no Wi-Fi, no internal storage enclosures for purchase at time of sale
EW-2-A-PW7720	Two-year extended warranty for PwrPak7D enclosures for purchase after sale of product
EW-2-T-PW7720	Two-year extended warranty for PwrPak7D enclosures for purchase at time of sale

**PwrPak7 Enclosure****Enclosure****Triple-Frequency**

PW7700-CFN-LNN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B21/B2b/B2a/B3, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-CFN-RNN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B21/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-CFN-RNN-TBE-P3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B21/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-CFN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B21/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-DFN-LNN-CMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-DFN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO, L1/L2/L3/L5, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FFN-LNN-CMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-FFN-LNN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

PW7700-FFN-LNN-TBE-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, API
PW7700-FFN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FFN-LNN-TBN-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7700-FFN-LNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
PW7700-FFN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-FFN-NZN-NNN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5 No Positioning, ALIGN Heading Includes GLIDE & RAIM.
PW7700-FFN-PNN-CMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-FFN-PNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FFN-PNN-TBN-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7700-FFN-PNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
PW7700-FFN-PNN-TMN	PwrPak7 single antenna enclosure containing OEM7700GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-FFN-RNN-CBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-FFN-RNN-CBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FFN-RNN-TBE	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-FFN-RNN-TBE-P3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-FFN-RNN-TBE-P4	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Navigation Grade

PW7700-FFN-RNN-TBE-S3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , High grade tactical
PW7700-FFN-RNN-TBF	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5 RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Sprinkler + Interference Mitigation + Spoofing Detection Includes GLIDE & RAIM.
PW7700-FFN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FFN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700-FFN-RNN-TBN-P2	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7700-FFN-RNN-TBN-P3-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical, API
PW7700-FFN-RYN-CBE	PwrPak7 single antenna enclosure containing OEM7700GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-FFN-RYN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FFN-RYN-TBN-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7700-FFN-RZN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B21/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-GFN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-GFN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-GFN-LNN-TNN	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate
PW7700-GFN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-TFN-LNN-TBE	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-TFN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements



PW7700-TFN-LNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
PW7700-TFN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-TFN-PNN-TMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-TFN-RNN-CBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation
PW7700-TFN-RNN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-TFN-RNN-TBE-P3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-TFN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-TFN-RNN-TBN-P3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-TFN-RNN-TBN-S2	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Mid grade tactical
PW7700-WFN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-WFN-LNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
PW7700-WFN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700GPS+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-WFN-PNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700M-FFN-LNN-TBE-A	PW7700M, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, API
PW7700M-FFN-LNN-TBN	PW7700M, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700MH-FFN-RYN-CBE-H	*CG* PwrPak7 single antenna enclosure containing OEM7700, no Wi-Fi, no internal storage. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5 RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, High Speed Includes GLIDE & RAIM.
<b>Dual-Frequency</b>	
PW7700-CDN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements



PW7700-CDN-RNN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-CDN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-CDN-RNN-TBN-S2	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7700-CDN-RYN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-DDN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-DDN-LNN-TME	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection
PW7700-DDN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-DDN-LNN-TNN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
PW7700-DDN-NZN-NNN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, No Positioning, ALIGN Heading
PW7700-DDN-PNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-DDN-PNN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-DDN-RNN-CBN	PwrPak7 single antenna enclosure containing OEM7700GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-DDN-RNN-TBE	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-DDN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-DDN-RNN-TBN-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7700-DDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700-DDN-RNN-TBN-P2	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7700-DDN-RNN-TBN-P3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-DDN-RYN-CBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 100 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

PW7700-DDN-RYN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FDN-LNN-CMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections Includes GLIDE & RAIM.
PW7700-FDN-LNN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation
PW7700-FDN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FDN-LNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
PW7700-FDN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-FDN-LZN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FDN-PNN-CME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
PW7700-FDN-PNN-CMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-FDN-PNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
PW7700-FDN-PNN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-FDN-RNN-5BN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 5 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FDN-RNN-TBE	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-FDN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-FDN-RYN-TBE	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-GDN-LNN-CBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-GDN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-GDN-LNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation and Spoofing Detection

PW7700-GDN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-GDN-LNN-TNN	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
PW7700-GDN-LYN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-GDN-NZN-NNN	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2, SBAS L1, ALIGN Heading
PW7700-GDN-PNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-GDN-PNN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-GDN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-GDN-RNN-TBN-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, API
PW7700-GDN-RNN-TBN-P2	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7700-GDN-RNN-TBN-P3	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1/L2, SBAS L1, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-GDN-RYN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-PDN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-PDN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-PDN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-PDN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7700-PDN-RYN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM.
PW7700-TDN-LNN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-TDN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-TDN-RNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-TDN-RNN-TBN-P2	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7700-WDN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

PW7700-WDN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GAL+QZSS, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700E2H-GDN-RNN-TBN-P1-H	*CG* PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU, High Speed Includes GLIDE & RAIM.
PW7700M-DDN-NZN-NNN	PwrPak7 single antenna enclosure containing OEM7700, no Wi-Fi, no internal storage. GPS+GLO+QZSS, L1/L2, SBAS L1, No Positioning, ALIGN Heading Includes GLIDE & RAIM.
PW7700M-DDN-RNN-TBN	PwrPak7M single antenna enclosure containing OEM7700, no Wi-Fi, no internal storage. GPS+GLO+QZSS, L1/L2, SBAS L1, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements Includes GLIDE & RAIM.
PW7700M-GDN-LNN-TBN	PwrPak7M single antenna enclosure containing OEM7700, with no Wi-Fi, no internal storage, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700M-GDN-LNN-TMN	PwrPak7M single antenna enclosure containing OEM7700, with no Wi-Fi, no internal storage, GPS+QZSS, L1/L2, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700M-GDN-NZN-NNN	PwrPak7M single antenna enclosure containing OEM7700, with no Wi-Fi, no internal storage, GPS+QZSS, L1/L2, SBAS L1, ALIGN Heading
PW7700M-GDN-PNN-TBN	PwrPak7M single antenna enclosure containing OEM7700, with no Wi-Fi, no internal storage. GPS+QZSS, L1/L2, SBAS L1, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700M-GDN-RYN-TBN	PwrPak7M single antenna enclosure containing OEM7700, with no Wi-Fi, no internal storage, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
<b>Single-Frequency</b>	
PW7700-DSN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-DSN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-DSN-LNN-TNE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Interference Mitigation and Spoofing Detection
PW7700-DSN-LNN-TNN	PwrPak7 single antenna enclosure containing OEM7700GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
PW7700-FSN-LNN-TBE	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/E1/B1, NavIC L5, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
PW7700-FSN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/E1/B1, NavIC L5, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-GSN-LNN-CBN	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 100 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-GSN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700-GSN-LNN-TMN	PwrPak7 single antenna enclosure containing OEM7700, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700-GSN-LNN-TNN	PwrPak7 single antenna enclosure containing OEM7700 GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
PW7700-PSN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700. GPS+BDS+QZSS, L1/B1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

PW7700-TSN-LNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL, L1/E1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
PW7700-WSN-LNN-TME	PwrPak7 single antenna enclosure containing OEM7700, GPS+GAL, L1/E1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, Interference Mitigation
PW7700H-DSN-LNN-TMN-H	*CG* PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections, High Speed Includes GLIDE & RAIM.
PW7700M-DSN-LNN-TMN	PwrPak7M single antenna enclosure containing OEM7700, no Wi-Fi, no internal storage. GPS+GLO+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
PW7700M-DSN-LNN-TNN	PW7700M, GPS+GLO, L1, Single Point+DGPS PNT, 20 Hz Data Output Rate
PW7700M-GSN-LNN-TBN	PwrPak7M single antenna enclosure containing OEM7700, with no Wi-Fi, no internal storage, GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
PW7700M-GSN-LNN-TMN	PwrPak7M single antenna enclosure containing OEM7700, no Wi-Fi, no internal storage. GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections Includes GLIDE & RAIM.
PW7700M-GSN-LNN-TNN	PwrPak7M single antenna enclosure containing OEM7700, no Wi-Fi, no internal storage. GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate Includes GLIDE & RAIM.

### Cable

01019764	PwrPak7 power cable, unterminated. 2m
01019765	PwrPak7 COM1 cable, DB26 female to DB9 female, 2m
01019767	PwrPak7 IMU cable. This cable provides connection from DB26 connector to M12 connector in the IMU-ISA-100C, IMU-HG1900, IMU-ENC-LN200 and IMU-uIMU-IC enclosures. 2m
01020004	PwrPak7 Family All I/O Cable. This cable provides access to all of the signals available on the PwrPak7 family DB26 connector. It is a DB26 to 3 DB9 and 1 DB15 connectors. It also supports direct connection to SPAN IMU through Com2. 30cm
01020005	PwrPak7 DB15 to all event lines cable. This cable connects to PwrPak7 all I/O cable 01020004 DB15 connector and breaks out to all event lines (including PPS and CAN). 2m
60723175	PwrPak7 USB Micro A to USB A cable, 2m

### Other

PWRPAK7-POWER-SUPPLY-KIT	PwrPak7 AC-DC power supply kit with power adapter and four clips. Works with PwrPak7 receiver only.
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### Warranty

EW-1-A-PW7700	One-year extended warranty for PwrPak7 enclosures for purchase after sale of product
EW-1-T-PW7700	One-year extended warranty for PwrPak7 enclosures for purchase at time of sale
EW-2-A-PW7700	Two-year extended warranty for PwrPak7 enclosures for purchase after sale of product
EW-2-T-PW7700	Two-year extended warranty for PwrPak7 enclosures for purchase at time of sale
EW-2-T-SPANCPT7	Two-year extended warranty for SPAN CPT7 enclosures for purchase at time of sale

## LD900 Enclosure

### Cable

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01018520                      Straight serial cable (extension) with male and female DB-9 connectors for ProPak6, FlexPak6, GPStation 6, 6ft, RoHS Compliant.

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**GT7800 Enclosure**

**Enclosure**

***Triple-Frequency***

GT7800H-FFN-LNN-TBF-H

\*CG\* GNSS Time Synchronization Receiver enclosure with integrated OEM729, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, with Sprinkler + Interference Mitigation and Spoofing Detection, High Speed, for sale in USA and Canada only

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# GNSS Smart Antennas

NovAtel Smart Antenna bring together NovAtel receiver and antenna technology into combined mechanical assemblies for easy deployment onto a vehicle.

## OEM7® Receivers

The OEM7 receiver family includes the following hardware platforms: OEM7700, OEM7720, OEM719, OEM729. Those product lines can all support L-band delivered corrections from TerraStar. Firmware options include: RTK, Precise Point Positioning (PPP), ALIGN®, SPAN®. PPP capability is included free of charge on all RTK capable models. PPP enabled models have a maximum measurement and position rate of 20 Hz. DGPS, SBAS, RAIM, and GLIDE® are included standard on all models. OEM7 receiver models intended to be used as base station receivers must have RTK Tx functionality enabled. RTK rover models should always have the RTK Tx functionality enabled.

NOTE: Appendix 1 - Software Part Number Description contains details of the location and meaning of the options in the receiver software model name.

### SMART7 Smart Antenna

#### SMART Antenna

##### Triple-Frequency

SM7-FFN-LNN-TMN	SMART7 with GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-FFN-LZN-TMN	SMART7 with GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-FFN-RNN-TBN	SMART7 with GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7-FFN-RNN-TBN-T0	SMART7 with Terrain Compensation, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7-FFN-RZN-TBN	SMART7 with GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7-TFN-RNN-TBN	SMART7 with GPS+GLO+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

##### Dual-Frequency

SM7-DDN-LNN-TBN	SMART7 with GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7-DDN-LNN-TMN	SMART7 with GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-DDN-LNN-TMN-T0	SMART7 with Terrain Compensation, GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-DDN-NZN-NNN	SMART7 with GPS+GLO, L1/L2, No Positioning, ALIGN Heading
SM7-DDN-PNN-TBN	SMART7 with GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7-DDN-PNN-TMN	SMART7 with GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-DDN-PNN-TMN-T0	SMART7 with Terrain Compensation, GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-DDN-PNN-TNN	SMART7 with GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate
SM7-DDN-RNN-TBN	SMART7 with GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7-DDN-RNN-TBN-T0	SMART7 with Terrain Compensation, GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

SM7-DDN-RYN-TBN	SMART7 with GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7-FDN-LNN-TMN	SMART7 with GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-FDN-PNN-TMN	SMART7 with GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-FDN-RNN-TBE	SMART7 with GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
SM7-FDN-RNN-TBN	SMART7 with GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7-GDN-LNN-TMN	SMART7 with GPS, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7-GDN-LNN-TNN	SMART7 with GPS, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate
SM7-TDN-LNN-TBN	SMART7 with GPS+GLO+GAL, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

### Warranty

EW-1-A-SM7	One-year extended warranty for SMART7, SMART7-I and SMART7-W products for purchase after sale of product.
EW-1-T-SM7	One-year extended warranty for SMART7, SMART7-I and SMART7-W products for purchase at time of sale.
EW-2-A-SM7	Two-year extended warranty for SMART7, SMART7-I and SMART7-W products for purchase after sale of product.
EW-2-T-SM7	Two-year extended warranty for SMART7, SMART7-I and SMART7-W products for purchase at time of sale.

## SMART7-I Smart Antenna

### SMART Antenna

#### Triple-Frequency

SM7I-FFN-LNN-TMN	SMART7 with Wi-Fi, Ethernet, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7I-FFN-NZN-NNN	SMART7 with Wi-Fi, Ethernet, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, No Positioning, ALIGN Heading
SM7I-FFN-PNN-TBN	SMART7 with Wi-Fi, Ethernet, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7I-FFN-RNN-TBN	SMART7 with Wi-Fi, Ethernet, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7I-FFN-RNN-TBN-T0	SMART7 with Wi-Fi, Ethernet, Terrain Compensation, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7I-MFN-RYN-TBE	SMART7 with Wi-Fi, Ethernet, GPS+GAL+BDS, L1/L2/L5/E1/E5a/E5b/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection
SM7I-TFN-LNN-TBN	SMART7 with Wi-Fi, Ethernet, GPS+GLO+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7I-TFN-RNN-TBN	SMART7 with Wi-Fi, Ethernet, GPS+GLO+GAL, L1/L2/L5/E1/E5a/E5b/AltBOC, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

#### Dual-Frequency

SM7I-DDN-LNN-TBN	SMART7 with Wi-Fi, Ethernet, GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
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SM7I-DDN-LNN-TMN	SMART7 with Wi-Fi, Ethernet,GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7I-DDN-LNN-TMN-T0	SMART7 with Wi-Fi, Ethernet, Terrain Compensation, GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7I-DDN-LZN-TMN	SMART7 with Wi-Fi, Ethernet, GPS+GLO, L1/L2, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7I-DDN-PNN-TMN	SMART7 with Wi-Fi, Ethernet,GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7I-DDN-PNN-TMN-T0	SMART7 with Wi-Fi, Ethernet, Terrain Compensation, GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7I-DDN-RNN-TBN	SMART7 with Wi-Fi, Ethernet,GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7I-DDN-RNN-TBN-T0	SMART7 with Wi-Fi, Ethernet, Terrain Compensation, GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7I-DDN-RYN-TBN	SMART7 with Wi-Fi, Ethernet, GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements

## SMART7-S Smart Antenna

### SMART Antenna

#### Triple-Frequency

SM7S-FFN-RNN-TBN-P1	SMART7 with SPAN,GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles, level 1 IMU
SM7S-FFN-RYN-TBN-P1	SMART7 with SPAN,GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles, level 1 IMU

#### Dual-Frequency

SM7S-DDN-RNN-TBN-P1	SMART7 with SPAN,GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles, level 1 IMU
SM7S-DDN-RYN-TBN-P1	SMART7 with SPAN,GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles, level 1 IMU
SM7S-TDN-RNN-TBN-P1	SMART7 with SPAN, GPS+GLO+GAL, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

### Warranty

EW-1-A-SM7S	One-year extended warranty for SMART7-S and SMART7-SI products for purchase after sale of product.
EW-1-T-SM7S	One-year extended warranty for SMART7-S and SMART7-SI products for purchase at time of sale.
EW-2-A-SM7S	Two-year extended warranty for SMART7-S and SMART7-SI products for purchase after sale of product.
EW-2-T-SM7S	Two-year extended warranty for SMART7-S and SMART7-SI products for purchase at time of sale.

## SMART7-SI Smart Antenna

### SMART Antenna

#### Triple-Frequency

SM7SI-FFN-RNN-TBN-P1	SMART7 with SPAN, WiFi, Ethernet, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles, level 1 IMU
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SM7SI-FFN-RYN-TBN-P1	SMART7 with SPAN, WiFi, Ethernet, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles, level 1 IMU
<b>Dual-Frequency</b>	
SM7SI-DDN-RNN-TBN-P1	SMART7 with SPAN, WiFi, Ethernet, GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles, level 1 IMU
SM7SI-DDN-RYN-TBN-P1	SMART7 with SPAN, WiFi, Ethernet, GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles, level 1 IMU

## SMART7-W Smart Antenna

### SMART Antenna

#### Triple-Frequency

SM7W-FFN-LNN-TMN	SMART7 with Wi-Fi,GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-FFN-LNN-TNN	SMART7 with Wi-Fi, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, Single Point+DGPS PNT, 20 Hz Data Output Rate
SM7W-FFN-NZN-NNN	SMART7 with Wi-Fi, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, No Positioning, ALIGN Heading
SM7W-FFN-RNN-TBN	SMART7 with Wi-Fi,GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7W-FFN-RNN-TBN-T0	SMART7 with Wi-Fi, Terrain Compensation, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7W-FFN-RZN-TBE	SMART7 with Wi-Fi, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection

#### Dual-Frequency

SM7W-DDN-LNN-TBN	SMART7 with Wi-Fi,GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7W-DDN-LNN-TMN	SMART7 with Wi-Fi,GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-DDN-LNN-TMN-T0	SMART7 with Wi-Fi, Terrain Compensation, GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-DDN-LYN-TMN	SMART7 with Wi-Fi, GPS+GLO, L1/L2, Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-DDN-LZN-TMN	SMART7 with Wi-Fi,GPS+GLO, L1/L2, Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-DDN-NZN-NNN	SMART7 with Wi-Fi, GPS+GLO, L1/L2, No Positioning, ALIGN Heading
SM7W-DDN-PNN-TMN	SMART7 with Wi-Fi,GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-DDN-PNN-TMN-T0	SMART7 with Wi-Fi, Terrain Compensation,GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-DDN-RNN-TBN	SMART7 with Wi-Fi,GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7W-DDN-RNN-TBN-T0	SMART7 with Wi-Fi, Terrain Compensation, GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7W-DDN-RYN-TBN	SMART7 with Wi-Fi,GPS+GLO, L1/L2, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements

SM7W-FDN-PNN-TMN	SMART7 with Wi-Fi, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-FDN-PNN-TMN-T0	SMART7 with Wi-Fi, Terrain Compensation, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM7W-FDN-RNN-TBN	SMART7 with Wi-Fi, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
SM7W-TDN-LNN-TBN	SMART7 with Wi-Fi, GPS+GLO+GAL, L1/L2/E1/E5b, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements

## SMART2 Smart Antenna

### SMART Antenna

#### Dual-Frequency

SM2-DDN-LNN-TMN-B	SMART2 with GPS+GLO, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-DDN-LNN-TMN-G	SMART2 with GPS+GLO, L1/L2, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-DDN-PNN-TMN-B	SMART2 with GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-DDN-PNN-TMN-G	SMART2 with GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-FDN-LNN-TMN-B	SMART2 with GPS+GLO+GAL+BDS, L1/L2/E1/E5b/B1/B2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-FDN-LNN-TMN-G	SMART2 with GPS+GLO+GAL+BDS, L1/L2/E1/E5b/B1/B2, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-FDN-PNN-TMN-G	SMART2 with GPS+GLO+GAL+BDS, L1/L2/E1/E5b/B1/B2, PPP+Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-GDN-LNN-TMN-B	SMART2 with GPS, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-GDN-LNN-TMN-G	SMART2 with GPS, L1/L2, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections

#### Single-Frequency

SM2-DSN-LNN-TMN-B	SMART2 with GPS+GLO, L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-DSN-LNN-TMN-G	SMART2 with GPS+GLO, L1, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-DSN-LNN-TNN-G	SMART2 with GPS+GLO, L1, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, No Measurements, No Base Station Corrections
SM2-FSN-LNN-TMN-B	SMART2 with GPS+GLO+GAL+BDS, L1/E1/B1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-FSN-LNN-TMN-G	SMART2 with GPS+GLO+GAL+BDS, L1/E1/B1, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-GSN-LNN-TMN-B	SMART2 with GPS, L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-GSN-LNN-TMN-G	SMART2 with GPS, L1, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2-GSN-LNN-TNN-B	SMART2 with GPS, L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, No Measurements, No Base Station Corrections

**Warranty**

EW-1-A-SM2	One-year extended warranty for SMART2 family antenna products for purchase after sale of product.
EW-1-T-SM2	One-year extended warranty for SMART2 family antenna products for purchase at time of sale.
EW-2-A-SM2	Two-year extended warranty for SMART2 family antenna products for purchase after sale of product.
EW-2-T-SM2	Two-year extended warranty for SMART2 family antenna products for purchase at time of sale.

**SMART2-B Smart Antenna****SMART Antenna****Dual-Frequency**

SM2B-DDN-LNN-TMN-G	SMART2 with Bluetooth GPS+GLO, L1/L2, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2B-DDN-PNN-TMN-G	SMART2 with Bluetooth, GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2B-FDN-LNN-TMN-G	SMART2 with Bluetooth, GPS+GLO+GAL+BDS, L1/L2/E1/E5b/B1/B2, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections

**Single-Frequency**

SM2B-DSN-LNN-TMN-G	SMART2 with Bluetooth, GPS+GLO, L1, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2B-FSN-LNN-TMN-G	SMART2 with Bluetooth, GPS+GLO+GAL+BDS, L1/E1/B1, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2B-GSN-LNN-TNN-B	SMART2 with Bluetooth, GPS, L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, No Measurements, No Base Station Corrections

**SMART2-TB Smart Antenna****SMART Antenna****Dual-Frequency**

SM2TB-DDN-LNN-TMN-T0-G	SMART2 with Terrain Compensation and Bluetooth, GPS+GLO, L1/L2, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2TB-DDN-PNN-TMN-T0-G	SMART2 with Terrain Compensation and Bluetooth, GPS+GLO, L1/L2, PPP+Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2TB-FDN-LNN-TMN-T0-G	SMART2 with Terrain Compensation and Bluetooth, GPS+GLO+GAL+BDS, L1/L2/E1/E5b/B1/B2, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2TB-FDN-PNN-TMN-T0-G	SMART2 with Terrain Compensation and Bluetooth, GPS+GLO+GAL+BDS, L1/L2/E1/E5b/B1/B2, PPP+Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections

**Single-Frequency**

SM2TB-DSN-LNN-TMN-T0-G	SMART2 with Terrain Compensation and Bluetooth, GPS+GLO, L1, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2TB-FSN-LNN-TMN-T0-G	SMART2 with Terrain Compensation and Bluetooth, GPS+GLO+GAL+BDS, L1/E1/B1, Single Point+DGPS PNT, GLIDE, 20 Hz Data Output Rate, Measurements Only, No Base Station Corrections
SM2TB-GSN-LNN-TNN-T0-B	SMART2 with Terrain Compensation and Bluetooth, GPS, L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, No Measurements, No Base Station Corrections

**SMART7****Cable**

01019944	SMART7 Evaluation Cable, 2 meters with 4 DB-9 Female connectors and open wires for power and signals.
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**Other**

01020089

Magnetic mounting plate for SMART7 family of products

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## OEMStar® Receivers

### AG-STAR

#### Cable

01018256	Serial and power cable for AG-STAR. Two DB-9 connectors for serial (4.6m) and tinned and tagged for BATT, PPS, ER, CAN, and MKI (7.6m). RoHS compliant.
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#### Other

01018317	Magnetic mounting plate for SMART6, AG-STAR and SMART-AG family of products
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01019142	1"-14 UNF thread pole mount adapter for SMART6 family of products
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#### Warranty

EW-1-A-AG-STAR	One-year extended warranty for AG-STAR family antenna products for purchase after sale of product.
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EW-1-T-AG-STAR	One-year extended warranty for AG-STAR family antenna products for purchase at time of sale.
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EW-2-A-AG-STAR	Two-year extended warranty for AG-STAR family antenna products for purchase after sale of product.
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EW-2-T-AG-STAR	Two-year extended warranty for AG-STAR family antenna products for purchase at time of sale.
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## Radio Adapters

The RELAY7™ RTK rover radio module attaches to the SMART7 to create a single unit for easy system integration and installation. The RELAY7 is available with either a 400 MHz or 900 MHz UHF radio for receiving RTK corrections from compatible base stations.

The RELAY™ RTK Radio Adapter attaches to the SMART6-L antenna to create a single RTK rover or base station assembly. 400 MHz licensed UHF, 900 MHz unlicensed UHF and HSPA cellular radio versions are available.

### RELAY7

#### SMART Antenna

RELAY7-400	RELAY7 RTK Radio for use with SMART7, 403-473 MHz
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RELAY7-900	RELAY7 RTK Radio for use with SMART7, 902-928 MHz
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#### Cable

01020095	Ethernet adapter cable for RELAY7 with SMART7-I, M12D male to female, 30 cm
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#### Warranty

EW-1-A-RELAY7	One-year extended warranty for RELAY7 products for purchase after sale of product.
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EW-1-T-RELAY7	One-year extended warranty for RELAY7 products for purchase at time of sale.
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EW-2-A-RELAY7	Two-year extended warranty for RELAY7 products for purchase after sale of product.
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EW-2-T-RELAY7	Two-year extended warranty for RELAY7 products for purchase at time of sale.
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### RELAY

#### Warranty

EW-1-A-RELAY	One-year extended warranty for RELAY products for purchase after sale of product.
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EW-1-T-RELAY	One-year extended warranty for RELAY products for purchase at time of sale.
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EW-2-A-RELAY	Two-year extended warranty for RELAY products for purchase after sale of product.
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EW-2-T-RELAY	Two-year extended warranty for RELAY products for purchase at time of sale.
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# Correction Services

TerraStar GNSS correction services combined with OEM positioning technology delivers centimetre to sub-metre level positioning solutions. TerraStar corrections are offered as a termed subscription for land, unmanned (UAV), and airborne applications. Land subscriptions permit TerraStar positioning for operations on land and with a maximum speed of 130 km/hr. UAV subscriptions have no speed restrictions and allow TerraStar positioning on land and up to 10 km from the coastline. Airborne subscriptions have no speed or geographic restrictions.

## ***TerraStar-C***

TerraStar-C GNSS correction service enable sub-decimetre positioning (4 cm HRMS, 5 cm H95) and is available for land, unmanned and airborne applications on OEM6 products only.

### **TSC Land**

#### **Subscription**

TSC-GL-LA-1YR	TerraStar-C subscription, Other Land Applications, Global, 1 Year
TSC-GL-LA-1YR-LBIP	TerraStar-C subscription, Other Land Applications, Global & IP, 1 Year
TSC-GL-LA-2YR	TerraStar-C subscription, Other Land Applications, Global, 2 Years
TSC-GL-LA-3YR	TerraStar-C subscription, Other Land Applications, Global, 3 Years
TSC-RG-LA-1YR	TerraStar-C subscription, Other Land Applications, Regional, 1 Year
TSC-RG-LA-1YR-LBIP	TerraStar-C subscription, Other Land Applications, Regional & IP, 1 Year
TSC-RG-LA-2YR	TerraStar-C subscription, Other Land Applications, Regional, 2 Years
TSC-RG-LA-3YR	TerraStar-C subscription, Other Land Applications, Regional, 3 Years

### **TSC UAV**

#### **Subscription**

TSC-RG-UAV-1YR	TerraStar-C subscription, UAV Applications, Regional, 1 Year
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### **TSC Airborne**

#### **Subscription**

TSC-GL-AR-1YR	TerraStar-C subscription, Airborne Applications, Global, 1 Year
TSC-GL-AR-2YR	TerraStar-C subscription, Airborne Applications, Global, 2 Years
TSC-GL-AR-3YR	TerraStar-C subscription, Airborne Applications, Global, 3 Years
TSC-RG-AR-1YR	TerraStar-C subscription, Airborne Applications, Regional, 1 Year
TSC-RG-AR-2YR	TerraStar-C subscription, Airborne Applications, Regional, 2 Years
TSC-RG-AR-3YR	TerraStar-C subscription, Airborne Applications, Regional, 3 Year

## ***TerraStar-L***

TerraStar-L GNSS correction service enable repeatable sub-metre positioning (40 cm HRMS, 50 cm H95) and is available for land, unmanned and airborne applications. TerraStar-L is available on both OEM7 and OEM6 products.

### **TSL Land**

#### **Subscription**

TSL-GL-LA-1YR	TerraStar-L subscription, Other Land Applications, Global, 1 Year
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TSL-GL-LA-1YR-LBIP	TerraStar-L subscription, Other Land Applications, Global & IP, 1 Year
TSL-RG-LA-1YR	TerraStar-L subscription, Other Land Applications, Regional, 1 Year
TSL-RG-LA-1YR-LBIP	TerraStar-L subscription, Other Land Applications, REgional & IP, 1 Year
TSL-RG-LA-2YR	TerraStar-L subscription, Other Land Applications, Regional, 2 Years
TSL-RG-LA-3YR	TerraStar-L subscription, Other Land Applications, Regional, 3 Years

## **TSL UAV**

### **Subscription**

TSL-RG-UAV-1YR	TerraStar-L subscription, UAV Applications, Regional, 1 Year
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## **TSL Airborne**

### **Subscription**

TSL-GL-AR-1YR	TerraStar-L subscription, Airborne Applications, Global, 1 Year
TSL-GL-AR-1YR-LBIP	TerraStar-L subscription, Airborne Applications, Global & IP delivery, 1 Year
TSL-RG-AR-1YR	TerraStar-L subscription, Airborne Applications, Regional, 1 Year
TSL-RG-AR-1YR-LBIP	TerraStar-L subscription, Airborne Applications, Regional & IP Delivery, 1 Year
TSL-RG-AR-2YR	TerraStar-L subscription, Airborne Applications, Regional, 2 Years
TSL-RG-AR-3MO	TerraStar-L subscription, Airborne Applications, Regional, 3 months
TSL-RG-AR-3YR	TerraStar-L subscription, Airborne Applications, Regional, 3 Years

## ***TerraStar-C PRO***

TerraStar-C PRO multi-constellation GNSS corrections enables centimetre-level positioning (2.5 cm HRMS, 3 cm H95) and is available for land, unmanned and airborne applications. TerraStar-C PRO is available only on OEM7 products.

## **TSCP Land**

### **Subscription**

TSCP-GL-LA-1YR	TerraStar-C PRO subscription, Other Land Applications, Global, 1 Year
TSCP-GL-LA-1YR-LBIP	TerraStar-C PRO subscription, Other Land Applications, Global & IP Delivery, 1 Year
TSCP-GL-LA-2YR	TerraStar-C PRO subscription, Other Land Applications, Global, 2 Years
TSCP-GL-LA-3YR	TerraStar-C PRO subscription, Other Land Applications, Global, 3 Years
TSCP-GL-LA-5YR	TerraStar-C PRO subscription, Other Land Applications, Global, 5 Years
TSCP-RG-LA-1YR	TerraStar-C PRO subscription, Other Land Applications, Regional, 1 Year
TSCP-RG-LA-1YR-LBIP	TerraStar-C Pro subscription, Other Land Applications, Regional & IP, 1 Year
TSCP-RG-LA-2YR	TerraStar-C PRO subscription, Other Land Applications, Regional, 2 Years
TSCP-RG-LA-3MO	TerraStar-C PRO subscription, Other Land Applications, Regional, 3 months
TSCP-RG-LA-3YR	TerraStar-C PRO subscription, Other Land Applications, Regional, 3 Years

TSCP-RG-LA-3YR-LBIP	TerraStar-C Pro subscription, Other Land Applications, Regional & IP, 3 Year
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TSCP-RG-LA-5YR	TerraStar-C PRO subscription, Other Land Applications, Regional, 5 Years
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## TSCP UAV

### Subscription

TSCP-GL-UAV-1YR	TerraStar-C PRO subscription, UAV Applications, Global, 1 Year
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TSCP-GL-UAV-2YR	TerraStar-C PRO subscription, UAV Applications, Global, 2 Year
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TSCP-GL-UAV-3YR	TerraStar-C PRO subscription, UAV Applications, Global, 3 Year
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TSCP-RG-UAV-1YR	TerraStar-C PRO subscription, UAV Applications, Regional, 1 Year
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TSCP-RG-UAV-3MO	TerraStar-C PRO subscription, UAV Applications, Regional, 3 months
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## TSCP Airborne

### Subscription

TSCP-GL-AR-1YR	TerraStar-C PRO subscription, Airborne Applications, Global, 1 Year
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TSCP-GL-AR-1YR-LBIP	TerraStar-C PRO subscription, Airborne Applications, Global & IP delivery, 1 Year
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TSCP-GL-AR-2YR	TerraStar-C PRO subscription, Airborne Applications, Global, 2 Years
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TSCP-GL-AR-3MO	TerraStar-C PRO subscription, Airborne Applications, Global, 3 months
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TSCP-GL-AR-3YR	TerraStar-C PRO subscription, Airborne Applications, Global, 3 Years
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TSCP-RG-AR-1YR	TerraStar-C PRO subscription, Airborne Applications, Regional, 1 Year
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TSCP-RG-AR-1YR-LBIP	TerraStar-C Pro subscription, Airborne Applications, Regional & IP, 1 Year
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TSCP-RG-AR-3MO	TerraStar-C PRO subscription, Airborne Applications, Regional, 3 months
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TSCP-RG-AR-3YR	TerraStar-C PRO subscription, Airborne Applications, Regional, 3 Year
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## TerraStar X

TerraStar-X enables centimeter-level positioning (2.5 cm H95) with no convergence time. Subscriptions are available in the USA for land and unmanned applications. TerraStar-X is available on OEM7 product only.

## TSX Land

### Subscription

TSX-RG-LA-1YR	TerraStar-X subscription, Other Land Applications, Regional, 1 Year
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TSX-RG-LA-3MO	TerraStar-X subscription, Other Land Applications, Regional, 3 months
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## TSX UAV

### Subscription

TSX-RG-UAV-1YR	TerraStar-X subscription, UAV Applications, Regional, 1 Year
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TSX-RG-UAV-3MO	TerraStar-X subscription, UAV Applications, Regional, 3 months
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## **RTK ASSIST**

RTK ASSIST enables NovAtel receivers to maintain centimetre-level accuracy during RTK data outages, radio signal blind spots or cellular network connectivity interruptions. With RTK ASSIST, users can operate seamlessly during RTK correction outages up to 20 minutes. RTK ASSIST is available on both OEM7 and OEM6 products.

### **RTK ASSIST Land**

#### **Subscription**

RTKA-GL-LA-1YR	RTK ASSIST standard subscription providing 20 minutes of RTK outage coverage, Other Land Applications, Global, 1 Year
RTKA-GL-LA-2YR	RTK ASSIST standard subscription providing 20 minutes of RTK outage coverage, Other Land Applications, Global, 2 Year
RTKA-GL-LA-3YR	RTK ASSIST standard subscription providing 20 minutes of RTK outage coverage, Other Land Applications, Global, 3 Year

### **RTK ASSIST UAV**

#### **Subscription**

RTKA-GL-UAV-1YR	RTK ASSIST subscription, UAV Applications, Global, 1 Year
RTKA-GL-UAV-2YR	RTK ASSIST subscription, UAV Applications, Global, 2 Year
RTKA-GL-UAV-3YR	RTK ASSIST subscription, UAV Applications, Global, 3 Year

## **RTK ASSIST PRO**

RTK ASSIST PRO multi-constellation GNSS corrections help maintain centimetre level positioning during RTK correction data outages, radio signal blind spots or cellular network connectivity interruptions. With RTK ASSIST Pro, users can operate seamlessly through any length of RTK correction outage. RTK ASSIST PRO also enables independent centimetre level positioning in areas where there is no RTK base or network coverage. RTK ASSIST PRO is available only on OEM7 products.

### **RTKAP Land**

#### **Subscription**

RTKAP-GL-LA-1YR	RTK ASSIST PRO subscription, Other Land Applications, Global, 1 Year
RTKAP-GL-LA-2YR	RTK ASSIST PRO subscription, Other Land Applications, Global, 2 Years
RTKAP-GL-LA-3YR	RTK ASSIST PRO subscription, Other Land Applications, Global, 3 Years
RTKAP-RG-LA-1YR	RTK ASSIST PRO subscription, Other Land Applications, Regional, 1 Year
RTKAP-RG-LA-2YR	RTK ASSIST PRO subscription, Other Land Applications, Regional, 2 Years
RTKAP-RG-LA-3YR	RTK ASSIST PRO subscription, Other Land Applications, Regional, 3 Years

### **RTKAP UAV**

#### **Subscription**

RTKAP-GL-UAV-1YR	RTK ASSIST PRO subscription, UAV Applications, Global, 1 Year
RTKAP-GL-UAV-2YR	RTK ASSIST PRO subscription, UAV Applications, Global, 2 Years
RTKAP-GL-UAV-3YR	RTK ASSIST PRO subscription, UAV Applications, Global, 3 Years

## Oceanix Correction Services

Oceanix™ GNSS correction service delivers exceptional sub-decimeter positioning for diverse marine applications. Combined with RTK, it provides high accuracy positioning and aids rapid re-convergence following GNSS signal interruptions. Subscriptions are offered directly through NovAtel for hydrographic survey, dredging and other marine applications. Oceanix Nearshore subscriptions are geogated to within 60 km from nominal coastline.

### ***Oceanix High Accuracy***

Oceanix High Accuracy multi-constellation GNSS corrections enable centimeter-level positioning (2cm HRMS, 3cm H95) and are available for nearshore marine applications. Oceanix High Accuracy is available only on OEM7 products. Oceanix parts are available for sale through registered marine dealers only. If you are interested in becoming a registered marine dealer, please contact your NovAtel sales representative.

### **OCXH OM**

#### **Subscription**

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OCXH-NS-OM-1MO	Oceanix-H subscription, Other Marine, Near Shore, 1 Month
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OCXH-NS-OM-1YR	Oceanix-H subscription, Other Marine, Near Shore, 1 Year
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OCXH-NS-OM-3MO	Oceanix-H subscription, Other Marine, Near Shore, 3 Months
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# SPAN GNSS-Inertial Products

NovAtel's deeply-coupled GNSS/INS functionality enhances the performance of the GNSS engine in challenging GNSS conditions and provides high-rate, and highly accurate position, velocity and orientation.

## OEM7® Receivers

The OEM7 receiver family includes the following hardware platforms: OEM7700, OEM7720, OEM719, OEM729. Those product lines can all support L-band delivered corrections from TerraStar. Firmware options include: RTK, Precise Point Positioning (PPP), ALIGN®, SPAN®. PPP capability is included free of charge on all RTK capable models. PPP enabled models have a maximum measurement and position rate of 20 Hz. DGPS, SBAS, RAIM, and GLIDE® are included standard on all models. OEM7 receiver models intended to be used as base station receivers must have RTK Tx functionality enabled. RTK rover models should always have the RTK Tx functionality enabled.

NOTE: Appendix 1 - Software Part Number Description contains details of the location and meaning of the options in the receiver software model name.

### OEM7720 Series

The OEM7720 receiver includes a high vibration oscillator on all cards.

#### OEM7720 Card

##### Card

##### Dual-Frequency

OEM7720-CDD-RYN-TBE-P3	OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
OEM7720-CDD-RZN-TBE-P1	OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-CDD-RZN-TBN-P1	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-CDD-RZN-TBN-P1-A	OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
OEM7720-CDD-RZN-TBN-S1	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU
OEM7720-CDD-RZN-TBN-S3	OEM7720, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, High grade tactical
OEM7720-DDD-RYN-TBE-S2	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled, Mid grade tactical
OEM7720-DDD-RYN-TBN-P1	OEM7720, GPS+GLO, L1/L2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-DDD-RYN-TBN-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
OEM7720-DDD-RZN-TBE-P1	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled with Profiles (includes Heave), Entry Level IMU
OEM7720-DDD-RZN-TBE-S1	OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled, Entry level IMU

OEM7720-DDD-RZN-TBN-P1	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Profiles (includes Heave), Entry Level IMU
OEM7720-DDD-RZN-TBN-P2	OEM7720, GPS+GLO, L1/L2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
OEM7720-DDD-RZN-TBN-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
OEM7720-DDD-RZN-TBN-S2	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Mid Grade Tactical IMU
OEM7720-DDD-RZN-TBN-S2-A	OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical, API
OEM7720-DDD-RZN-TBN-S3	GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, High Grade Tactical IMU
OEM7720-DDN-RNN-TBN-P1	OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-DDN-RNN-TBN-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7720-DDN-RZN-TBN-P1	OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-FDD-RNN-TBE-S1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
OEM7720-FDD-RYN-TBE-P1	OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-FDD-RYN-TBE-P3-A	OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical, API
OEM7720-FDD-RYN-TBE-S1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
OEM7720-FDD-RYN-TBN-P1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-FDD-RYN-TBN-S1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7720-FDD-RYN-TBN-S2	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Mid Grade Tactical IMU
OEM7720-FDD-RYN-TBN-S3	OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical

OEM7720-FDD-RYN-TBN-S3-A	OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical, API
OEM7720-FDD-RZN-TBE-S1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
OEM7720-FDD-RZN-TBN-P1	OEM7720, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-FDD-RZN-TBN-S1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU Includes GLIDE & RAIM
OEM7720-FDD-RZN-TBN-S2	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Mid Grade Tactical IMU
OEM7720-FDD-RZN-TBN-S3	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
OEM7720-FDN-RYN-TBN-S1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7720-FDN-RYN-TBN-S2	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
OEM7720-FDN-RYN-TBN-S3	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
OEM7720-GDD-RZN-TBN-S1	GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry Level IMU
OEM7720-PDD-RYN-TBN-S1	GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7720-TDD-RYN-TBN-P1	OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7720-WDD-RYN-TBN-P1	OEM7720, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

## PwrPak7D Enclosure

### Enclosure

#### Dual-Frequency

PW7720-CDD-RYN-TBE-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , High grade tactical
PW7720-CDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

PW7720-CDD-RYN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-CDD-RYN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720-CDD-RYN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-CDD-RYN-TBN-S4	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7720-CDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-CDD-RZN-TBE-P2	PwrPak7D dual antenna enclosure containing OEM7720GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-CDD-RZN-TBE-P3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720-CDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-CDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-CDD-RZN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720-CDD-RZN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-CDD-RZN-TBN-S4	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7720-DDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-DDD-RYN-TBN-P2	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-DDD-RYN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-DDD-RYN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720-DDD-RYN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical



PW7720-DDD-RYN-TBN-S4	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7720-DDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-DDD-RZN-TBE-P2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-DDD-RZN-TBE-P3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720-DDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-DDD-RZN-TBN-P2	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-DDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-DDD-RZN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720-DDD-RZN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-DDD-RZN-TBN-S4	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7720-DDN-RZN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-FDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-FDD-RYN-TBN-P2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Mid Grade Tactical IMU Includes GLIDE & RAIM.
PW7720-FDD-RYN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-FDD-RYN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical

PW7720-FDD-RYN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-FDD-RYN-TBN-S4	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7720-FDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-FDD-RZN-TBE-P2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-FDD-RZN-TBE-P3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720-FDD-RZN-TBE-S4	PwrPak7D dual antenna enclosure containing OEM7720GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Navigation Grade
PW7720-FDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-FDD-RZN-TBN-P2	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-FDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-FDD-RZN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720-FDD-RZN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-FDD-RZN-TBN-S4	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7720-GDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-GDD-RYN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-GDD-RYN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical

PW7720-GDD-RYN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-GDD-RYN-TBN-S4	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7720-GDD-RZN-TBE-P2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-GDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-GDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720-GDD-RZN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720-GDD-RZN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-GDD-RZN-TBN-S4	PwrPak7D dual antenna enclosure containing OEM7720. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7720-TDD-RYN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720-TDD-RYN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720-TDD-RZN-TBE	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection Includes GLIDE & RAIM and tracks SBAS/QZSS/LBand.
PW7720-TDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720-TDD-RZN-TBE-P2	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720-TDD-RZN-TBE-P3	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720-TDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720M-GDD-RYN-TBN-S2	PwrPak7DM dual antenna enclosure containing OEM7720, with no Wi-Fi, no internal storage, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical

## OEM7700 Series

The OEM7700 receiver includes a high vibration oscillator on all cards.

### OEM7700 Card

#### Card

#### Triple-Frequency

OEM7700-FFN-RNN-TBE-P3-A	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical, API
OEM7700-FFN-RNN-TBE-S3	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , High grade tactical
OEM7700-FFN-RNN-TBN-P1	OEM7700, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7700-FFN-RNN-TBN-S2	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
OEM7700-FFN-RYN-TBN-P1	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7700-FFN-RYN-TBN-S1	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7700-TFN-RNN-TBN-S3	GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, High Grade Tactical IMU

#### Dual-Frequency

OEM7700-CDN-RNN-TBE-P2	OEM7700, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
OEM7700-CDN-RNN-TBE-S1	OEM7700, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
OEM7700-CDN-RNN-TBN-P1-A	OEM7700, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
OEM7700-CDN-RNN-TBN-S1	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7700-CDN-RNN-TBN-S2	GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
OEM7700-CDN-RNN-TBN-S3	OEM7700, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
OEM7700-DDN-RNN-TBE-P1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7700-DDN-RNN-TBE-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Entry Level IMU
OEM7700-DDN-RNN-TBN-P1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

OEM7700-DDN-RNN-TBN-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry Level IMU
OEM7700-DDN-RNN-TBN-S2	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Mid Grade Tactical IMU
OEM7700-DDN-RNN-TBN-S2-A	OEM7700, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical, API
OEM7700-DDN-RNN-TBN-S3	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, High Grade Tactical
OEM7700-DDN-RNN-TBN-S4	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Navigation Grade IMU
OEM7700-DDN-RYN-TBE-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
OEM7700-DDN-RYN-TBN-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry Level IMU
OEM7700-FDN-RNN-TBN-P3	OEM7700, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
OEM7700-FDN-RNN-TBN-P4	OEM7700, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Navigation Grade
OEM7700-FDN-RNN-TBN-S1	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7700-FDN-RNN-TBN-S2	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
OEM7700-FDN-RYN-TBN-P1	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7700-FDN-RZN-TBN-S3	OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
OEM7700-GDN-RNN-TBN-S1	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled (includes heave), Entry Level/MEMS
OEM7700-PDN-RNN-TBN-S3-A	GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical, API
OEM7700-TDN-RNN-TBN-P1	OEM7700, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7700-TDN-RNN-TBN-P2	OEM7700, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical

## PwrPak7 Enclosure

### Enclosure

#### Triple-Frequency

PW7700-FFN-RNN-TBE-P1

PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU



PW7700-FFN-RNN-TBE-S1	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
PW7700-FFN-RNN-TBE-S1-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU, API
PW7700-FFN-RNN-TBE-S4-A	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Navigation Grade, API
PW7700-FFN-RNN-TBN-P3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-FFN-RNN-TBN-S2	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7700-FFN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7700-TFN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
<b>Dual-Frequency</b>	
PW7700-CDN-RNN-TBE-S2	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Mid grade tactical
PW7700-CDN-RNN-TBN-P3	PwrPak7 single antenna enclosure containing OEM7700GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-CDN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7700-CDN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7700-DDN-RNN-TBE-P3	PwrPak7 single antenna enclosure containing OEM7700, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700-DDN-RNN-TBE-S2	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Mid grade tactical
PW7700-DDN-RNN-TBE-S3	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , High grade tactical
PW7700-DDN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
PW7700-DDN-RNN-TBN-S2	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Mid Grade Tactical



PW7700-DDN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, High Grade Tactical IMU
PW7700-DDN-RNN-TBN-S4	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Navigation Grade IMU
PW7700-GDN-RNN-TBN-S2	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7700-GDN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7700-TDN-RNN-TBN-S2	PwrPak7 single antenna enclosure containing OEM7700. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical

## **OEM7600 Series**

### **OEM7600 Card**

#### **Card**

#### **Dual-Frequency**

OEM7600-DDN-RNN-TBE-P1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7600-DDN-RNN-TBN-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7600-FDN-RNN-TBE-P1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7600-FDN-RNN-TBE-S1	GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
OEM7600-GDN-RNN-TBE-P1	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM7600-GDN-RNN-TBN-S1	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM7600-PDN-RNN-TBE-S1	GPS+BDS+QZSS, L1/L2/B1/B2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU

## **OEM719 Series**

The OEM719 receiver includes a high vibration oscillator on all cards.

### **OEM719 Card**

#### **Card**

#### **Triple-Frequency**

OEM719-DFN-RNN-TBN-S1	OEM719, GPS+GLO+QZSS, L1/L2/L3/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM719-FFN-RNN-TBE-P1	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

OEM719-FFN-RNN-TBE-P2	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5 RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), Mid Grade Tactical IMU Includes GLIDE & RAIM.
OEM719-FFN-RNN-TBE-P3	OEM719, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
OEM719-FFN-RNN-TBE-S1	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Entry Level IMU
OEM719-FFN-RNN-TBE-S2	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Mid Grade Tactical IMU
OEM719-FFN-RNN-TBE-S3	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, High Grade Tactical IMU
OEM719-FFN-RNN-TBE-S4	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Navigation Grade IMU
<b>Dual-Frequency</b>	
OEM719-CDN-RNN-TBN-S1	OEM719, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
OEM719-CDN-RNN-TBN-S2	GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
OEM719-DDN-RNN-TBN-P1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Profiles (includes Heave), Entry Level IMU
OEM719-DDN-RNN-TBN-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
OEM719-DDN-RNN-TBN-S2	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Mid Grade Tactical IMU
OEM719-DDN-RNN-TBN-S3	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, High Grade Tactical IMU
OEM719-DDN-RNN-TBN-S4	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Navigation Grade IMU
OEM719-FDN-RNN-TBE-P1	OEM719, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
OEM719-GDN-RNN-TBN-S1	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
OEM719-GDN-RNN-TBN-S2	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical

**OEM719C Card****Card****Dual-Frequency**

OEM719C-DDN-RNN-TBN-S2	Conformal coated OEM719. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Mid Grade Tactical IMU
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OEM719C-DDN-RNN-TBN-S4	Conformal Coated OEM719. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Navigation Grade IMU Includes GLIDE & RAIM and tracks SBAS/QZSS/LBand.
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## OEM719A Card

### Card

#### Dual-Frequency

OEM719A-PDN-RNN-TBN-S1	GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
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## OEM729 Series

The OEM729 receiver includes a high vibration oscillator on all cards.

## OEM729 Card

### Card

#### Triple-Frequency

OEM729-FFN-RNN-TBN-S4	GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Navigation Grade IMU
OEM729-FFN-RYN-TBE-S4-A	OEM729, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Navigation Grade, API
OEM729-DDN-RNN-TBN-P2	GPS+GLO+QZSS, L1/L2, SBAS L1, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Mid Grade Tactical IMU Includes GLIDE & RAIM.
OEM729-DDN-RNN-TBN-S1	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
OEM729-DDN-RNN-TBN-S2	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Mid Grade Tactical IMU
OEM729-DDN-RNN-TBN-S2-A	OEM729, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical, API
OEM729-DDN-RNN-TBN-S3	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, High Grade Tactical IMU
OEM729-DDN-RNN-TBN-S4	GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Navigation Grade IMU
OEM729-GDN-RNN-TBE-P2	OEM729, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
OEM729-GDN-RNN-TBN-P2	OEM729, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
OEM729-GDN-RNN-TBN-S4	GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Navigation Grade IMU
OEM729-PDN-RNN-TBN-P2	OEM729, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
OEM729-PDN-RNN-TBN-S2	OEM729, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
OEM729-PDN-RNN-TBN-S4-A	OEM729, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade, API



## SPAN® Technology

### SPAN Inertial Measurement Units

#### IMU-ISA-100 Series

##### Card

OEM-IMU-ISA-UIC Universal Interface Card for OEM-IMU-ISA, includes associated cabling. No IMU.

##### IMU

IMU-ISA-100C Northrop Grumman Litef ISA-100C IMU inside environmentally sealed enclosure. Commercial exportable. Cables included.

OEM-IMU-ISA-100C ISA-100C IMU without enclosure. Commercial exportable.

##### Cable

01019319 IMU Interface Cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900

01019767 PwrPak7 IMU cable. This cable provides connection from DB26 connector to M12 connector in the IMU-ISA-100C, IMU-HG1900, IMU-ENC-LN200 and IMU-uIMU-IC enclosures. 2m

60723136 IMU Power Cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900

60723137 Wheel sensor cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900

##### Other

01019843 Mounting plate for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900 enclosures

#### IMU-LN200

##### Card

OEM-IMU-LN000 Interface Card assembly for IMU-LN200

OEM-IMU-LN200-UIC Universal Interface Card for OEM-IMU-LN200, includes associated cabling. No IMU.

##### IMU

IMU-ENC-LN000 Cube enclosure without IMU

IMU-ENC-LN200-C LN200C IMU inside environmentally sealed enclosure. Cables included. Same performance as LN200. Non-ITAR but requires a US Dept of Commerce Re-Export License to everywhere except the USA and Canada.

IMU-LN000 Round enclosure without IMU

OEM-IMU-LN200-C LN200C IMU without enclosure. Same performance as LN200. Non-ITAR but requires a US Dept of Commerce Re-Export License to everywhere except the USA and Canada.

OEM-IMU-LN200-L LN200-L IMU without enclosure. Same gyros performance as LN200-1. Max accelerometer bias of 1.5mg.

UIMU-LN200-L Universal enclosure with LN200-L IMU (includes cable). Same gyros performance as LN200-1. Max accelerometer bias of 1.5mg.

##### Cable

01019319 IMU Interface Cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900

01019767 PwrPak7 IMU cable. This cable provides connection from DB26 connector to M12 connector in the IMU-ISA-100C, IMU-HG1900, IMU-ENC-LN200 and IMU-uIMU-IC enclosures. 2m

60723136	IMU Power Cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900
60723137	Wheel sensor cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900

**Other**

01019843	Mounting plate for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900 enclosures
UIMU-LN000	Universal LN200 Enclosure without IMU.

**IMU-HG****Card**

OEM-IMU-H00	SDLC Interface card assembly for HG1700 IMUs with cabling.
OEM-IMU-HG1700-SDLC	SDLC (IMU Interface Card) for HG1700 IMU, includes associated cabling and IMU interface card. No IMU. Optional alternative to OEM-IMU-H00, uses locking connector and PCB based connector on the IMU. Note: SDLC boards are not interchangeable between product variants.

**IMU**

IMU-H00	HG1700 enclosure without an IMU (includes all cables)
IMU-H58	HG1700 enclosure with HG1700 AG58 IMU (includes all cables)
IMU-H62	HG1700 enclosure with HG1700 AG62 IMU (includes all cables)
OEM-IMU-HG1700-H58	HG1700 AG58 IMU without enclosure, formerly OEM-IMU-H58
OEM-IMU-HG1700-H62	HG1700 AG62 IMU without enclosure, formerly OEM-IMU-H62
UIMU-H58	Universal enclosure with HG1700 AG58 IMU (includes cable)
UIMU-H62	Universal enclosure with HG1700 AG62 IMU (includes cable)

**Other**

UIMU-H00	Universal enclosure without HG1700 IMU (includes cable)
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**OEM-IMU-HG****Card**

OEM-IMU-HG1900-SDLC	SDLC (IMU Interface Card) for HG1900 IMU, includes associated cabling and IMU interface card. No IMU.
OEM-IMU-HG1930-SDLC	SDLC (IMU Interface Card) for HG1930 IMU, includes associated cabling and IMU interface card. No IMU.

**IMU**

OEM-IMU-HG1900-CA50	Honeywell HG1900 CA50 IMU. Designed to be paired with -2 model SPAN receivers. IMU only.
OEM-IMU-HG1930-CA50	Honeywell HG1930 CA50 IMU. Designed to be paired with -1 model SPAN receivers. IMU only.
OEM-IMU-HG4930-AN01	Honeywell HG4930 AN01 IMU. Designed to be paired with -1 model SPAN receivers. IMU only.
OEM-IMU-HG4930-AN04	Honeywell HG4930 AN04 IMU. Designed to be paired with -2 model SPAN receivers. IMU only.

**CPT7700****GNSS-INS Enclosure**



CPT7700-DFN-RNN-TBE-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2/L3/L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700-DFN-RNN-TBN-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2/L3/L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700-DFN-RYN-TBN-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2/L3/L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM
CPT7700-DFN-RZN-TBN-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2/L3/L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700-FFN-RNN-TBE-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2a/B2b, NavIC L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700-FFN-RNN-TBE-P2	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2a/B2b, NavIC L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), Mid Grade Tactical IMU Includes GLIDE & RAIM.
CPT7700-FFN-RNN-TBN-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2a/B2b, NavIC L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700-FFN-RNN-TBN-P2	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2a/B2b, NavIC L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Mid Grade Tactical IMU Includes GLIDE & RAIM.
CPT7700-FFN-RZN-TBN-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2a/B2b, NavIC L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700-FFN-RZN-TBN-P2	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2a/B2b, NavIC L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Mid Grade Tactical IMU Includes GLIDE & RAIM.
CPT7700-GFN-RYN-TBN-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+QZSS, L1/L2/L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.

CPT7700-GFN-RZN-TBN-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+QZSS, L1/L2/L5, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700-GSN-NNN-NNN	SPAN CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. Hardware only, requires firmware upgrade to produce output.
CPT7700-TFN-RZN-TBE-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700-TFN-RZN-TBN-P1	CPT7 single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC, SBAS L1/L5 Single Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
CPT7700NC-GSN-NNN-NNN	SPAN CPT7 NO CABLE single antenna enclosure containing OEM7700 with Honeywell HG4930 MEMS IMU. Hardware only, requires firmware upgrade to produce output.

**Dual-Frequency**

CPT7700-DDN-RNN-TBN-P1	CPT7700, GPS+GLO, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
CPT7700-FDN-RNN-TBN-P1	CPT7700, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

**IMU-HG1900****Card**

OEM-IMU-HG1900-UIC	Universal Interface Card for OEM-IMU-HG1900, includes associated cabling. No IMU.
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**IMU**

IMU-ENC-H00	Cube enclosure without HG1900 IMU (includes all cables)
IMU-HG1900	Honeywell HG1900CA50 IMU inside environmentally sealed enclosure. Cables included.

**Cable**

01019319	IMU Interface Cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900
01019767	PwrPak7 IMU cable. This cable provides connection from DB26 connector to M12 connector in the IMU-ISA-100C, IMU-HG1900, IMU-ENC-LN200 and IMU-uIMU-IC enclosures. 2m
60723136	IMU Power Cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900
60723137	Wheel sensor cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900

**Other**

01019843	Mounting plate for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900 enclosures
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**IMU-uIMU-IC****Card**

OEM-IMU-uIMU-UIC	Universal Interface Card for OEM-IMU-uIMU, includes associated cabling. No IMU.
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**IMU**

IMU-uIMU-IC	Northrop Grumman Litef uIMU-IC IMU inside environmentally sealed enclosure. Commercial exportable. Cables included.
OEM-IMU-uIMU-IC	uIMU IMU without enclosure. Commercial exportable.
OEM-IMU-uIMU-IC-UART	uIMU IMU with UART interface without enclosure. Commercial exportable.

### Cable

01019319	IMU Interface Cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900
01019767	PwrPak7 IMU cable. This cable provides connection from DB26 connector to M12 connector in the IMU-ISA-100C, IMU-HG1900, IMU-ENC-LN200 and IMU-uIMU-IC enclosures. 2m
60723136	IMU Power Cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900
60723137	Wheel sensor cable for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900

### Other

01019843	Mounting plate for IMU-ISA-100C, IMU-ENC-LN200, IMU-uIMU-IC, and IMU-HG1900 enclosures
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## IMU-KVH1750

### IMU

IMU-KVH1750	Tactical-Grade IMU 1750 from KVH Industries containing fiber optic gyroscopes and MEMS accelerometers. Designed to be paired with -2 model SPAN receivers. Includes cable to connect to a ProPak6 receiver.
IMU-KVH1750-FP6	Tactical-Grade IMU 1750 from KVH Industries containing fiber optic gyroscopes and MEMS accelerometers. Designed to be paired with -2 model SPAN receivers. Includes cable to connect to a FlexPak6 receiver.
IMU-KVH1750-NC	Tactical-Grade IMU 1750 from KVH Industries containing fiber optic gyroscopes and MEMS accelerometers. Designed to be paired with -2 model SPAN receivers. No cable is included.

### Cable

01019211	IMU-KVH1750 power/data cable for use with FlexPak6 and ProPak6 SPAN capable receivers.
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## OEM-IMU-STIM

### IMU

OEM-IMU-STIM300	Sensoror STIM300 IMU. Designed to be paired with S1 model SPAN receivers. IMU only.
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## OEM-IMU-EPSON

### IMU

OEM-IMU-EG320N	Epson G320N IMU. Designed to be paired with S1 model OEM7 SPAN receivers. IMU only.
OEM-IMU-EG370N	Epson G370N IMU. Designed to be paired with S1 model OEM7 SPAN receivers. IMU only.

## PwrPak7-E1

### Enclosure

#### L1/L2 Dual-Frequency

PW7700E1-GDN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
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#### Single-Frequency

PW7700E1-GSN-LNN-TBN	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+QZSS, L1, SBAS L1, Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements
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**GNSS-INS Enclosure****Triple-Frequency**

PW7700E1-FFN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E1-FFN-RNN-TBE-S1-A	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled, Entry level IMU, API
PW7700E1-FFN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles (includes Heave), Entry Level IMU
PW7700E1-FFN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
PW7700E1-FFN-RYN-TBE-P1-A	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
PW7700E1-GFN-RNN-TBE-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled, Entry level IMU
PW7700E1-GFN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E1-TFN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
PW7700E1-TFN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, High grade tactical
PW7700E1-WFN-RZN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700ME1-GFN-RNN-TBN-P1	PwrPak7M single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, no Wi-Fi, no internal storage. GPS+QZSS, L1/L2/L5/L6, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Profiles (includes Heave), Entry Level IMU

**Dual-Frequency**

PW7700E1-CDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles (includes Heave), Entry Level IMU
PW7700E1-CDN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
PW7700E1-DDN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled with Profiles (includes Heave), Entry Level IMU

PW7700E1-DDN-RNN-TBE-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
PW7700E1-DDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles (includes Heave), Entry Level IMU
PW7700E1-DDN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
PW7700E1-DDN-RNN-TBN-S1-A	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU, API
PW7700E1-DDN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMUGPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7700E1-DDN-RNN-TBN-S4	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Navigation Grade
PW7700E1-FDN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled with Profiles (includes Heave), Entry Level IMU
PW7700E1-FDN-RNN-TBE-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
PW7700E1-FDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5b/B1/B2I/B2b, SBAS L1, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
PW7700E1-GDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles (includes Heave), Entry Level IMU
PW7700E1-GDN-RNN-TBN-P1-H	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, High Speed
PW7700E1-GDN-RNN-TBN-P2	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7700E1-GDN-RNN-TBN-P3	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700E1-GDN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
PW7700E1-GDN-RNN-TBN-S3	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMUGPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7700E1-PDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled with Profiles (includes Heave), Entry Level IMU

PW7700E1-PDN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
PW7700E1-TDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E1-TDN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU
PW7700E1H-GDN-RNN-TBN-P1-H	*CG* PwrPak7 single antenna enclosure containing OEM7700 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU, High Speed Includes GLIDE & RAIM.
PW7700ME1-GDN-RNN-TBN-P1-A	PW7700ME1, GPS, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
PW7700ME1-GDN-RNN-TBN-P2	PW7700ME1, GPS, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical

### Cable

01019764	PwrPak7 power cable, unterminated. 2m
01019765	PwrPak7 COM1 cable, DB26 female to DB9 female, 2m
01020004	PwrPak7 Family All I/O Cable. This cable provides access to all of the signals available on the PwrPak7 family DB26 connector. It is a DB26 to 3 DB9 and 1 DB15 connectors. It also supports direct connection to SPAN IMU through Com2. 30cm
01020005	PwrPak7 DB15 to all event lines cable. This cable connects to PwrPak7 all I/O cable 01020004 DB15 connector and breaks out to all event lines (including PPS and CAN). 2m
60723175	PwrPak7 USB Micro A to USB A cable, 2m

### Warranty

EW-1-A-PW7700E1	One-year extended warranty for PwrPak7-E1 enclosures for purchase after sale of product
EW-1-T-PW7700E1	One-year extended warranty for PwrPak7-E1 enclosures for purchase at time of sale
EW-2-A-PW7700E1	Two-year extended warranty for PwrPak7-E1 enclosures for purchase after sale of product
EW-2-T-PW7700E1	Two-year extended warranty for PwrPak7-E1 enclosures for purchase at time of sale

## PwrPak7-E2

### GNSS-INS Enclosure

#### Triple-Frequency

PW7700E2-CFN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/L5/L6/B1/B2/B2b/B2a/B3, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-FFN-RNN-TBE-P1	PW7700E2, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-FFN-RNN-TBN-P1	PW7700E2, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU



PW7700E2-FFN-RNN-TBN-P2	PW7700E2, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7700E2-FFN-RNN-TBN-S1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Entry Level IMU
PW7700E2-FFN-RYN-TBE-P1-A	PW7700E2, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
PW7700E2-FFN-RYN-TBE-P2	PW7700E2, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7700E2-FFN-RYN-TBE-P3	PW7700E2, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700E2-FFN-RYN-TBF-P1-A	PW7700E2, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Sprinkler + Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API.
PW7700E2-FFN-RYN-TBF-P2-A	PW7700E2, GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Sprinkler + Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid Grade Tactical IMU, API.
PW7700E2-GFN-RNN-TBE-P1-A	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
PW7700E2-GFN-RNN-TBE-P3	PW7700E2, GPS+QZSS, L1/L2/L5/L6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700E2-TFN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-TFN-RNN-TBN-P1	PW7700E2, GPS+GLO+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-WFN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GAL+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700QE2-FFN-LNN-TBF-A	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU, no Wi-Fi. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5 Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Sprinkler + Interference Mitigation + Spoofing Detection, Entry Level IMU, API Includes GLIDE & RAIM.
PW7700QE2-FFN-RNN-TBE-P3	PW7700QE2, GPS+GLO+GAL+BDS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B3, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700QE2-FFN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU, with no Wi-Fi. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2/B2b/B2a/B3, NavIC L5, SBAS L1/L5, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry Level IMU

PW7700QE2-FFN-RYN-TBE-P1-A	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU, with no Wi-Fi. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled with Profiles (includes Heave), Entry Level IMU, API Includes GLIDE & RAIM, tracks NavIC L5, SBAS/QZSS/LBand, and tracks NAVIC IRNSS L5.
PW7700QE2-FFN-RYN-TBF-P1-A	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU, no Wi-Fi. GPS+GLO+GAL+BDS+QZSS, L1/L2/L5/L6/E1/E5a/E5b/AltBOC/E6/B1/B2I/B2b/B2a/B3, NavIC L5, SBAS L1/L5 RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Sprinkler + Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU, API Includes GLIDE & RAIM.
<b>Dual-Frequency</b>	
PW7700E2-CDN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-CDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-DDN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-DDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-FDN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-FDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-GDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700E2-GDN-RNN-TBN-P3	PW7700E2, GPS, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7700E2-WDN-RNN-TBE-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU. GPS+GAL+QZSS, L1/L2/E1/E5b, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700QE2-DDN-RNN-TBN-P1	PW7700QE2, GPS+GLO, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7700QE2-GDN-RNN-TBN-P1	PwrPak7 single antenna enclosure containing OEM7700 with Epson G370N MEMS IMU, with no Wi-Fi. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

**Warranty**

EW-1-A-PW7700E2	One-year extended warranty for PwrPak7-E2 enclosures for purchase after sale of product
EW-1-T-PW7700E2	One-year extended warranty for PwrPak7-E2 enclosures for purchase at time of sale

EW-2-A-PW7700E2 Two-year extended warranty for PwrPak7-E2 enclosures for purchase after sale of product

EW-2-T-PW7700E2 Two-year extended warranty for PwrPak7-E2 enclosures for purchase at time of sale

## PwrPak7D-E1

### Enclosure

#### Dual-Frequency

PW7720-TDN-RZN-TBN

PwrPak7D dual antenna enclosure containing OEM7720. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Single Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements  
Includes GLIDE & RAIM and tracks SBAS/QZSS/LBand.  
PLEASE NOTE: this configuration only activates 1 of the 2 antennas on this receiver.

## GNSS-INS Enclosure

### Dual-Frequency

PW7720E1-CDD-RYN-TBE-P1

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

PW7720E1-CDD-RYN-TBN-P1

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

PW7720E1-CDD-RYN-TBN-P3

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical

PW7720E1-CDD-RYN-TBN-P3-A

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical, API

PW7720E1-CDD-RYN-TBN-S1

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU

PW7720E1-CDD-RZN-TBE-P1

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

PW7720E1-CDD-RZN-TBE-P2

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical

PW7720E1-CDD-RZN-TBN-P1

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

PW7720E1-CDD-RZN-TBN-S1

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU

PW7720E1-DDD-RYN-TBE-P1

PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO, L1/L2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

PW7720E1-DDD-RYN-TBE-S1-A	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU, API
PW7720E1-DDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-DDD-RYN-TBN-P2	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720E1-DDD-RYN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720E1-DDD-RYN-TBN-S1-A	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU, API
PW7720E1-DDD-RYN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMUGPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical
PW7720E1-DDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-DDD-RZN-TBE-P2	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720E1-DDD-RZN-TBE-S3	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , High grade tactical
PW7720E1-DDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-DDD-RZN-TBN-P2	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720E1-DDD-RZN-TBN-P3	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), High Grade Tactical IMU Includes GLIDE & RAIM.
PW7720E1-DDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720E1-DDD-RZN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720E1-DDD-RZN-TBN-S3	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMUGPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , High grade tactical

PW7720E1-DDN-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-FDD-RYN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-FDD-RYN-TBE-P1-A	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
PW7720E1-FDD-RYN-TBE-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled, Entry level IMU
PW7720E1-FDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-FDD-RYN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU
PW7720E1-FDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-FDD-RZN-TBE-P1-A	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
PW7720E1-FDD-RZN-TBE-P3	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720E1-FDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-FDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU
PW7720E1-GDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-GDD-RYN-TBN-P3	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS, L1/L2, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720E1-GDD-RYN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU



PW7720E1-GDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-GDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-GDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720E1-GDD-RZN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720E1-PDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-PDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-TDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-TDD-RYN-TBN-P2	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL, L1/L2/E1/E5b, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Mid grade tactical
PW7720E1-TDD-RYN-TBN-S2	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Mid grade tactical
PW7720E1-TDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-TDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E1-TDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720E1-TDN-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720E1-WDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU



PW7720E1-WDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720ME1-CDD-RZN-TBN-P1	PW7720ME1, GPS+GLO+BDS, L1/L2/B1/B2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720ME1-DDD-RZN-TBN-S1	PwrPak7DM-E1 dual antenna enclosure containing OEM7720 with Epson G320N MEMS IMU. With no Wi-Fi, no internal storage, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU

### Cable

01020004	PwrPak7 Family All I/O Cable. This cable provides access to all of the signals available on the PwrPak7 family DB26 connector. It is a DB26 to 3 DB9 and 1 DB15 connectors. It also supports direct connection to SPAN IMU through Com2. 30cm
01020005	PwrPak7 DB15 to all event lines cable. This cable connects to PwrPak7 all I/O cable 01020004 DB15 connector and breaks out to all event lines (including PPS and CAN). 2m

### Warranty

EW-1-A-PW7720E1	One-year extended warranty for PwrPak7D-E1 enclosures for purchase after sale of product
EW-1-T-PW7720E1	One-year extended warranty for PwrPak7D-E1 enclosures for purchase at time of sale
EW-2-A-PW7720E1	Two-year extended warranty for PwrPak7D-E1 enclosures for purchase after sale of product
EW-2-T-PW7720E1	Two-year extended warranty for PwrPak7D-E1 enclosures for purchase at time of sale

## PwrPak7D-E2

### GNSS-INS Enclosure

#### Dual-Frequency

PW7720E2-CDD-RYN-TBE-P1	PW7720E2, GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-CDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-CDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-CDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-DDD-RYN-TBE-P1	PW7720E2, GPS+GLO, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-DDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

PW7720E2-DDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-DDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-DDD-RZN-TBN-S1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720E2-DDD-RZN-TBN-S1-A	PW7720E2, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU, API
PW7720E2-FDD-RYN-TBE-P1	PW7720E2, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-FDD-RYN-TBE-P1-A	PW7720E2, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
PW7720E2-FDD-RYN-TBE-S1	PW7720E2, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU
PW7720E2-FDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-FDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-FDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-FDN-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-GDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-GDD-RYN-TBN-P3	PW7720E2, GPS, L1/L2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical
PW7720E2-GDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-GDD-RZN-TBN-S1	PW7720E2, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
PW7720E2-TDD-RZN-TBE-P1	PW7720E2, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-TDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

PW7720E2-WDD-RYN-TBE-P1-A	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
PW7720E2-WDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU. GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720E2-WDD-RZN-TBN-P1	PW7720E2, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720QE2-DDD-RZN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU, with no Wi-Fi. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720QE2-FDD-RZN-TBE-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU, with no Wi-Fi. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
PW7720QE2-GDD-RYN-TBN-P1	PwrPak7D dual antenna enclosure containing OEM7720 with Epson G370N MEMS IMU, with no Wi-Fi. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

## Warranty

EW-1-A-PW7720E2	One-year extended warranty for PwrPak7D-E2 enclosures for purchase after sale of product
EW-1-T-PW7720E2	One-year extended warranty for PwrPak7D-E2 enclosures for purchase at time of sale
EW-2-A-PW7720E2	Two-year extended warranty for PwrPak7D-E2 enclosures for purchase after sale of product
EW-2-T-PW7720E2	Two-year extended warranty for PwrPak7D-E2 enclosures for purchase at time of sale

## CPT7

### GNSS-INS Enclosure

#### Triple-Frequency

SPANCPT7-MFD-RYN-TBE-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2b/B2a, NavIC L5, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled with Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM and tracks SBAS/QZSS/LBAnd.
SPANCPT7-MFD-RYN-TBE-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2b/B2a, NavIC L5, SBAS L1, Dual Antenna Activation, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Entry Level IMU Includes GLIDE & RAIM and tracks SBAS/QZSS/LBAnd.
SPANCPT7-MFD-RZN-TBE-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GAL+BDS+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC/B1/B2/B2b/B2a, NavIC L5, SBAS L1, Dual Antenna Activation, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled with Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM, tracks SBAS/QZSS/LBAnd, and tracks NAVIC IRNSS L5.

SPANCPT7-WFD-RYN-TBN-P1 CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GAL+QZSS, L1/L2/L5/E1/E5a/E5b/AltBOC, SBAS L1/L5 Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU  
Includes GLIDE & RAIM.

### **Dual-Frequency**

SPANCPT7-CDD-RYN-TBE-S1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU

SPANCPT7-CDD-RYN-TBN-P1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

SPANCPT7-CDD-RYN-TBN-P3 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, High grade tactical

SPANCPT7-CDD-RYN-TBN-S1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU

SPANCPT7-CDD-RZN-TBN-P1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

SPANCPT7-CDD-RZN-TBN-S1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+BDS+QZSS, L1/L2/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU

SPANCPT7-DDD-RYN-TBE-P1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

SPANCPT7-DDD-RYN-TBE-S1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled , Entry level IMU

SPANCPT7-DDD-RYN-TBN-P1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

SPANCPT7-DDD-RYN-TBN-S1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU

SPANCPT7-DDD-RZN-TBE-P1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

SPANCPT7-DDD-RZN-TBN-P1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU

SPANCPT7-DDD-RZN-TBN-S1 SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU

SPANCPT7-DDN-RNN-TBN-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Profiles (includes Heave), Entry level IMU
SPANCPT7-DDN-RNN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+QZSS, L1/L2, SBAS L1, Single Antenna Activation, RTK+PPP+Single Point+DGPS PNT, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU
SPANCPT7-FDD-RYN-TBE-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
SPANCPT7-FDD-RYN-TBE-P1-A	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+BDS, L1/L2/E1/E5B/B1/B2, NovAtel CORRECT RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
SPANCPT7-FDD-RYN-TBE-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled, Entry level IMU
SPANCPT7-FDD-RYN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU
SPANCPT7-FDD-RYN-TBN-S1-A	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU, API
SPANCPT7-FDD-RZN-TBE-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
SPANCPT7-FDD-RZN-TBE-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled, Entry level IMU
SPANCPT7-FDD-RZN-TBN-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
SPANCPT7-FDD-RZN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled, Entry level IMU
SPANCPT7-GDD-RYN-TBE-P1	CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
SPANCPT7-GDD-RYN-TBE-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN enabled, Entry level IMU
SPANCPT7-GDD-RYN-TBN-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU



SPANCPT7-GDD-RYN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
SPANCPT7-GDD-RZN-TBE-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
SPANCPT7-GDD-RZN-TBN-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
SPANCPT7-GDD-RZN-TBN-P1-A	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, API
SPANCPT7-GDD-RZN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
SPANCPT7-PDD-RZN-TBN-P1	CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
SPANCPT7-PDD-RZN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+BDS+QZSS, L1/L2/B1/B2/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
SPANCPT7-TDD-RYN-TBN-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
SPANCPT7-TDD-RYN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
SPANCPT7-TDD-RZN-TBE-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation and Spoofing Detection, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
SPANCPT7-TDD-RZN-TBN-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU
SPANCPT7-TDD-RZN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GLO+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
SPANCPT7-WDD-RYN-TBE-P1	CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, Interference Mitigation + Spoofing Detection, SPAN enabled with Relative INS + Profiles (includes Heave), Entry Level IMU Includes GLIDE & RAIM.
SPANCPT7-WDD-RYN-TBN-P1	CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, Dual Antenna Activation, RT2+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled with Relative INS + Profiles (includes Heave), 100Hz raw IMU data rate  Includes GLIDE & RAIM.



SPANCPT7-WDD-RYN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
SPANCPT7-WDD-RZN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+GAL+QZSS, L1/L2/E1/E5b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU
SPANCPT7NC-FDD-RZN-TBN-P1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+GLO+GAL+BDS+QZSS, L1/L2/E1/E5B/B1/B2I/B2b, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN Enabled, Profiles/Heave enabled, Entry level IMU, No Cables
SPANCPT7NC-GDD-RYN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU, GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Relative Positioning, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU. No cables variant.
SPANCPT7NC-GDD-RZN-TBN-S1	SPAN CPT7 dual antenna enclosure containing OEM7720 with Honeywell HG4930 MEMS IMU. GPS+QZSS, L1/L2, SBAS L1, RTK+PPP+Single Point+DGPS PNT, ALIGN Heading, 20 Hz Data Output Rate, Base Station Corrections + Measurements, SPAN enabled , Entry level IMU. Without cables.

### Cable

01020208	Terminated SPAN CPT7 I/O1 power/data cable
01020209	Terminated SPAN CPT7 I/O2 power/data cable

### Other

01020112	Adapter mounting plate for SPAN CPT7 compatible with SPAN-CPT6 and SPAN-IGM mounting patterns.
21223365	Connector Plug SPAN CPT7 I/O 1
21223366	Connector Plug SPAN CPT7 I/O 2

## Waypoint® Products Group

Waypoint software is available with keyless electronic licensing. Unless specified, licenses are perpetual (non-expiring) and include one year of post-contractual support (PCS).

### **GrafNav/GrafNet®**

NovAtel offers a complete selection of static and kinematic GNSS post-processing software.

#### **GrafNav/GrafNet Software License**

##### **Software**

SW-PP-R-GNST-NT	GrafNav/GrafNet Static-only post-processing software. Perpetual license with one-year post-contractual support maintenance. Single-seat, software-based license (No USB Dongle).
SW-PP-R-GNST-T1	GrafNav/GrafNet Static-only post-processing software. One-year term license. Single-seat, software-based license (No USB Dongle).
SW-PP-R-GNVT-NT	GrafNav/GrafNet post-processing software including GrafMov moving baseline option. Perpetual license with one-year post-contractual support maintenance. Single-seat, software-based license (No USB Dongle).
SW-PP-R-GNVT-T1	GrafNav/GrafNet post-processing software including GrafMov moving baseline option. One-year term license. Single-seat, software-based license, includes Command Line Interface (No USB Dongle).

#### **GrafNav/GrafNet PCS**

##### **Software**

SW-UD-PP-R-GNST-T1	1 year PCS Maintenance extension for GrafNav Static (Software License)
SW-UD-PP-R-GNST-T2	2 year PCS Maintenance extension for GrafNav Static (Software License)
SW-UD-PP-R-GNST-T3	3 year PCS Maintenance extension for GrafNav Static (Software License)
SW-UD-PP-R-GNVT-T1	1 year PCS Maintenance extension for GrafNav (Software License)
SW-UD-PP-R-GNVT-T2	2 year PCS Maintenance extension for GrafNav (Software License)
SW-UD-PP-R-GNVT-T3	3 year PCS Maintenance extension for GrafNav (Software License)

#### **GrafNav/GrafNet Product Upgrades**

##### **Software**

SW-UG-PP-R-GNST-NT	Upgrade to retail license of GrafNav Static - software licensed
SW-UG-PP-R-GNVT-NT	Upgrade to retail license of GrafNav - software licensed

#### **GrafNav/GrafNet USB Key Exchanges**

##### **Other**

SW-EX-PP-R-GNST-NT	Exchange USB key for a new key-less license of GrafNav/GrafNet (Static Only)
SW-EX-PP-R-GNVT-NT	Exchange USB key for a new key-less license of GrafNav/GrafNet

### **Inertial Explorer®**

#### **Inertial Explorer Software License**

##### **Software**

SW-PP-EMB-IE-NT	Inertial Explorer post-processing software. Perpetual license with one-year post-contractual support maintenance. For applications embedded with IE SDK, only (not standalone). Single-seat, software-based license (No USB Dongle).
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SW-PP-EMB-IE-T1	Inertial Explorer post-processing software. One-year term license. For applications embedded with IE SDK, only (not standalone). Single-seat, software-based license (No USB Dongle).
SW-PP-R-IE-NT	Inertial Explorer post-processing software. Perpetual license with one-year post-contractual support maintenance. Single-seat, software-based license (No USB Dongle).
SW-PP-R-IE-T1	Inertial Explorer post-processing software. One-year term license Single-seat, software-based license (No USB Dongle).
SW-PP-R-IE-X-3MO	Inertial Explorer Xpress post-processing software. 3-month term license Single-seat, software-based license (No USB Dongle).
SW-PP-R-IE-X-6MO	Inertial Explorer Xpress post-processing software. 6-month term license Single-seat, software-based license (No USB Dongle).
SW-PP-R-IE-X-T1	Inertial Explorer Xpress post-processing software. 1-year term license Single-seat, software-based license (No USB Dongle).
SW-PP-R-NRT-NT-12MO	1-year TerraStar-NRT service (Software License). Sold as an add-on to a Waypoint Perpetual license
SW-PP-R-NRT-T1	1-year TerraStar-NRT service license (Software License). Sold as an add-on to a Waypoint Term license.

## Inertial Explorer PCS

### Software

SW-UD-PP-R-IE-T1	1 year PCS Maintenance extension for Inertial Explorer (Software License)
SW-UD-PP-R-IE-T2	2 year PCS Maintenance extension for Inertial Explorer (Software License)
SW-UD-PP-R-IE-T3	3 year PCS Maintenance extension for Inertial Explorer (Software License)

## Inertial Explorer Product Upgrades

### Software

SW-UG-PP-R-IE-NT	Upgrade to retail license of Inertial Explorer - software licensed
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### Other

SW-EX-PP-R-IE-NT	Exchange USB key for a new key-less license of Inertial Explorer
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# Professional Services

NovAtel offers in-house training and customer support on request.

## Professional Services

### *Consulting Services*

#### **On Site Consulting or Support**

Consulting-Daily	Full, 7.5-hour day
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Consulting-Hourly	Each hour, only available in addition to one or more full days
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### *Customer Training*

#### **In House Training**

Training-In-House-Daily	Full, 7.5-hour day, per person
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Training-On-Site-Daily	Full, 7.5-hour day, per class
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# Antennas

NovAtel provides a wide range of antennas for any GNSS application.

## NovAtel Antennas

### Fixed Reference Antennas

Deliver exceptional availability and high precision in permanently installed and continuously operating applications. Typical applications include: network RTK reference stations, CORS systems

#### 750-GNSS Antenna

##### Quadruple-Frequency

GNSS-750

Active GPS L1/L2/L2C/L5, GLONASS L1/L2/L3, Galileo E1/E5/E5a/E5b/E6, Compass B1/B2/B3, and L-band signals, Choke-ring, N connector

### High Performance Antennas

Provide the performance of a choke ring antenna without the size and weight. Typical applications include: survey, ground mapping, agriculture, construction & mining, temporary and permanent reference stations

#### 703-GGG Antenna

##### Triple-Frequency

GPS-703-GGG-HV

L1/L2/L5 GPS, L1/L2/L3 GLONASS, B1/B2 BeiDou, E1/E5a-b Galileo kinematic, zero-offset antenna, high-vibration option, TNC connector

#### 713-GGG(L) Antenna

Triple frequency antenna designed for marine applications with improved rejection against Inmarsat signals.

##### Triple-Frequency

GPS-713-GGGL-N

L1/L2/L5 GPS, L1/L2/L3 GLONASS, B1/B2 BeiDou, E1/E5a-b Galileo. L-band kinematic, zero-offset antenna, Inmarsat rejection, N connector

GPS-713-GGG-N

L1/L2/L5 GPS, L1/L2/L3 GLONASS, B1/B2 BeiDou, E1/E5a-b Galileo kinematic, zero-offset antenna, Inmarsat rejection, N connector

#### 702-GG Antenna

##### Dual-Frequency

GPS-702-GG-HV

L1/L2, GPS + GLONASS, kinematic, zero-offset antenna, TNC connector, high vibe option

#### 704-X

##### Quadruple-Frequency

GPS-704-X

Passive antenna suitable for receiving GPS L1/L2/L5, Galileo E1/E5a/E5b/E6, GLONASS L1/L2, BeiDou B1, B2,B3 and L-Band, TNC Connector

#### GNSS-500 Antenna

##### Dual-Frequency

GNSS-502

L1/L2 GPS+GLONASS, BeiDou B1/B2, Galileo E1/E5b, L-band, kinematic, zero-offset antenna, TNC connector

##### Single-Frequency

GNSS-501

L1 GPS+GLONASS, BeiDou B1, Galileo E1, L-band, kinematic, zero-offset antenna, TNC connector

#### GNSS-800 Antennas

##### Quadruple-Frequency

GNSS-850

L1/L2/L2C/L5 GPS, L1/L2/L3 GLONASS, B1/B2/B3 BeiDou, E1/E5/E5a/E5b/E6 Galileo, L-band, kinematic, zero-offset antenna, TNC connector

##### Dual-Frequency

GNSS-802

L1/L2 GPS+GLONASS, kinematic, zero-offset antenna, TNC connector

GNSS-802L

L1/L2 GPS+GLONASS, B1 BeiDou, E1 Galileo, L-band, kinematic, zero-offset antenna, TNC connector

GNSS-802-N	L1/L2 GPS+GLONASS, kinematic, zero-offset antenna, N connector
GNSS-804	L1/L2 GPS, L1/L2 GLONASS, B1/B2 BeiDou, E1/E5b Galileo, kinematic, zero-offset antenna, TNC connector
GNSS-804L	L1/L2 GPS, L1/L2 GLONASS, B1/B2 BeiDou, E1/E5b Galileo, L-band, kinematic, zero-offset antenna, TNC connector

## **NovAtel Antenna Accessories**

### **Antenna cables**

60723154	15 cm RF cable with straight SMA male to TNC female connectors
60723212	2.0 meter RF cable with straight SMA male to straight SMA male connectors
60723177	2.5 meter RF cable with straight SMA male to TNC male connectors
60723178	5 meter RF cable with straight SMA to TNC connectors
GPS-C006	5 meter RF cable with straight TNC male plug connectors (for GPS-xxx and GNSS-xxx antennas), RoHS compliant
GPS-C016	15 meter RF cable with straight TNC male plug connectors (for GPS-xxx and GNSS-xxx antennas), RoHS compliant
GPS-C032	30 meter, low-loss RF cable with straight TNC male plug connectors (for GPS-xxx and GNSS-xxx antennas), RoHS compliant

### **Antenna Accessories**

01018195	Optional radome for GNSS-750 antenna
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### **Radio Antenna**

12023313	450 MHz Antenna, 5 dBi, 450-470MHz MHz, NMO
12023314	900 MHz Antenna, 5 dBi, 806-970 MHz MHz, NMO



## Antcom Antennas

NovAtel standard lead times do not apply to Antcom Antennas, please contact NovAtel for confirmation of lead times when ordering these Antcom Antennas. Certain Antcom antennas are restricted for sale or distribution in certain regions, generally indicated by the presence of \*CG\* in the part description. Contact NovAtel for further information.

### Compact Antcom Antennas

#### 2.6" CIRCULAR PATCH

##### Single-Frequency

2G15A-XTB-1 Active L1 GPS Antenna, 2.6" circular, 26 dB, TNC Bulkhead connector, white

#### 2.7" CIRCULAR PATCH

##### Single-Frequency

G3Ant-2A196MNS-4 2.7" Diameter, Active L1 GPS/Glonass/L-Band Antenna, Flush Magnetic, 196" Cable with SMA Side Connector, Black Color

#### 3.5" CIRCULAR PATCH

##### L1/L2 Dual-Frequency

G5Ant-3AT1 3.5" Diameter, Active L1/L2 GPS/Glonass/L-Band Antenna, TNC Connector, White Color

##### Dual-Frequency

G5Ant-3AMT1 3.5" Diameter, Active L1/L2 GPS/Glonass/L-Band Antenna, Magnetic Mount, TNC Side Connector, White Color

##### Single-Frequency

3G15A-XT-1 3.5" Diameter, Active L1 GPS Antenna, TNC Connector, White Color

#### ARINC 743

##### Dual-Frequency

G5Ant-42AT1 4.7"x3.0" 743 Arinc, Active L1/L2 GPS/Glonass/L-Band Antenna, TNC Connector, White Color

G5Ant-42AT1-A 4.7"x3.0" 743 Arinc, Active L1/L2 GPS/Glonass/L-Band Antenna, TNC Connector, White Color

42G1215A-XT-1 4.7"x3.0" 743 Arinc, Active L1/L2 GPS Antenna, TNC Connector, White Color

##### Single-Frequency

G3Ant-42A4T1 4.7"x3.0" 743 Arinc, Active L1 GPS/Glonass/L-Band Antenna, TNC Connector, White Color

#### MINI-ARINC

##### Single-Frequency

G3Ant-4AT1 3.4"x2.2" Mini Arinc, Active L1 GPS/Glonass/L-Band Antenna, TNC Connector, White Color

# Appendix 1 - Software Part Number Description for OEM7

Note: This table is for reference only. Not all combinations are possible on all the products. See specific product sections of the price list for details on specific products.

Channel Configuration			CORRECT Positioning			Output and Interference Toolkit			SPAN		Options						
Constellation	Frequency	Antennas	CORRECT Positioning	Heading	Reserved	Max Output Rate (Hz)	Measurement Correction Output	Interference Toolkit	(optional) INS Mode	(optional) IMU Grade	(reserved)	(reserved)	(optional) API	(optional) High Speed			
char[1]	char[2]	char[3]	char[4]	char[5]	char[6]	char[7]	char[8]	char[9]	char[10]	char[11]	char[12]	char[13]	char[14]	char[15]			
G	GPS Only	S Single Frequency L1/E1/B1	N Normal/Single Ant.	Z Heading	N None	T	M	E	T	0	<	<	A	H			
D	GPS + GLO					L	Y	M							B	Enable Mitigation	Terrain Compensation
W	GPS + GAL	D Dual Frequency L2/E5b/B2	D Dual Ant. Activation	Y Z + Moving Baseline	N None	C	B	F	P	1	<	<	A	H			
P	GPS + BDS					P	N	M + Corrections							N	Mitigation + Sprinkler	Profiles, Includes Heave
J	GPS + NavIC	F				N	N	N	K	3							
T	GPS + GLO + GAL	char[1] Any GPS-enabled model also has comparable SBAS and QZSS signals enabled		char[4] All models include GLIDE & RAIM unless otherwise stated		char[8] Option N will still allow measurement logs to be output at 1Hz, but all pseudoranges and ADR data will be set to zero (measurement output is not enabled), and positions are disabled			char[9] Option N will still allow spectral analysis and interference detection								
C	GPS + GLO + BDS					R			char[8] Option N will still allow measurement logs to be output at 1Hz, but all pseudoranges and ADR data will be set to zero (measurement output is not enabled), and positions are disabled			char[9] Option N will still allow spectral analysis and interference detection					
M	GPS+GAL+BDS+NavIC								char[8] Option N will still allow measurement logs to be output at 1Hz, but all pseudoranges and ADR data will be set to zero (measurement output is not enabled), and positions are disabled			char[9] Option N will still allow spectral analysis and interference detection					
F	GPS+GLO+GAL+BDS+NavIC								char[8] Option N will still allow measurement logs to be output at 1Hz, but all pseudoranges and ADR data will be set to zero (measurement output is not enabled), and positions are disabled			char[9] Option N will still allow spectral analysis and interference detection					
<p>char[1,2] Selecting Constellation and Frequency MF or FF provides NavIC L5</p> <p>char[1,2] Selecting JS provides GPS L1 and NavIC L5</p> <p>char [1,2] Selecting JD provides NavIC L5 only on the OEM7700, OEM719 and OEM729 platforms</p> <p>char[3] N for all single-antenna boards; for dual-antenna boards select 'N' to activate only the primary antenna, or 'D' to activate both</p> <p>char[4] Pseudorange positioning includes basic single point positioning, DGPS/DGNSS, GLIDE, and TerraStar-L PPP</p> <p>char[4] To use, TerraStar-L, TerraStar-C/Pro or TerraStar-X, a subscription from TerraStar is required</p>																	