COMPACT ENCLOSURE FEATURING OUR HIGH PERFORMANCE GNSS RECEIVER

FUTURE PROOFED SCALABILITY

The FlexPak6 is software upgradable in the field to provide the custom performance required for your application demands. Capable of tracking all present and upcoming Global Navigation Satellite System (GNSS) constellations and satellite signals including GPS L1/L2/L2C/L5, GLONASS L1/L2/L2C, Galileo E1/E5a/E5b/AltBOC and BeiDou B1/B2 signals, the FlexPak6 ensures high performance GNSS positioning now and in the future.

BASE STATION OR ROVER

Compact and lightweight, the FlexPak6 is well suited for rover applications. With its powerful GNSS engine, onboard NTRIP v1.0 and v2.0 client and server support and enhanced connection options including serial, USB, CAN and Ethernet, the FlexPak6 is also ideal for base station operation.

FLEXIBLE CONFIGURATION OPTIONS FOR YOUR APPLICATION

Proven and innovative NovAtel technology combine to achieve the best in GNSS positioning. NovAtel’s industry leading Pulse Aperture Correlator (PAC) multipath mitigation technology is standard and ensures the highest quality measurements and positioning. Innovative new technology provides excellent resistance to interference for consistent, accurate and reliable positioning. Configurable options ensure that your positioning and accuracy needs are met at all times. To learn more about how our firmware options can enhance your positioning, please visit www.novatel.com/products/firmware-options.

FEATURES

+ Metre to centimetre-level accuracy
+ Auxiliary strobe signals with configurable PPS output
+ Shock resistant
+ Serial, USB, Ethernet and CAN Bus communications
+ NTRIP client and server
+ Wide input voltage range
+ SPAN® INS functionality

If you require more information about our enclosures, visit www.novatel.com/products/gnss-receivers/enclosures/
PERFORMANCE

Channel Configuration
120 Channels

Signal Tracking
GPS L1, L2, L2C, L5
GLONASS L1, L2, L2C
Galileo E1, E5a, E5b, AltBOC
BeiDou B1, B2, B3
SBAS
QZSS
L-Band

Horizontal Position Accuracy (RMS)
Single point L1 1.5 m
Single point L1/L2 1.2 m
NovAtel CORRECT™
» SBAS4 60 cm
» DGPS 40 cm
» PPP
  TerraStar-L 40 cm
  TerraStar-C 4 cm
» RTK 1 cm + 1 ppm
Initial time <10 s
Initial reliability >99.9%

Maximum Data Rate8
Measurements 100 Hz
Position 100 Hz

Time to First Fix
Cold start6 <50 s
Hot start10 <35 s

Signal Reacquisition
L1 <0.5 s (typical)
L2 <1.0 s (typical)

Velocity Accuracy11 20 ns RMS

Velocity Accuracy12 0.03 m/s RMS
Velocity 12 515 m/s

PHYSICAL AND ELECTRICAL

Dimensions 147 x 113 x 45 mm
Weight 337 g

Power
Input voltage +6 to +36 VDC
Power consumption13 1.8 W

Antenna LNA Power Output
Output voltage 5 VDC ±5%
Maximum current 100 mA

Connectors
Serial DB9
USB Mini-AB
Ethernet, CAN, I/O DB-HD15

COMMUNICATION PORTS
1 RS-232 921,600 bps
1 RS-232 or RS-422 921,600 bps
1 USB port 12 Mbps
1 CAN port 1 Mbps
1 Ethernet port supporting:
  » 10BaseT/100BaseT networks
  » Direct TCP/IP & UDP connectivity
  » NTRIP (v2.0) client and server

ENVIRONMENTAL

Temperature
Operating -40°C to +75°C
Storage -40°C to +85°C

Humidity 95% non-condensing

Vibration (operating)
Random MIL-STD-810G (7.7 g)
Sinusoidal SAE J1211 (4 g)

Acceleration (operating)
MIL-STD-810G, Method 513.6
Procedure II (16 g)
IEC 60068-2-27 (10 g)
Shock MIL-STD-810G (40 g)

Compliance FCC, CE marking, Industry Canada

FEATURES

• Field upgradeable software
• 20 Hz measurement position data rate
• PAC multipath mitigating technology
• Differential GPS positioning
• Differential correction support for RTCM 2.1, 2.3, 3.0, 3.1, CMR, CMR+ and RTCA
• Navigation output support for NMEA 0183 and detailed NovAtel ASCII and binary logs
• Auxiliary strobe signals, including a configurable PPS output for time synchronization and mark inputs

NOVATEL CONNECT™

NovAtel Connect is an intuitive configuration and visualization tool allowing comprehensive control
• Easy to use wizards
• Detailed information via GUI
• Plan, view and playback files
• Remotely control and monitor Windows 7 platforms

INCLUDED ACCESSORIES

• Serial cable (null)
• I/O cable
• USB cable
• Automotive 12 VDC power adapter

CORRECTION SERVICES

• TerraStar-L
• TerraStar-C
• RTK ASSIST™

OPTIONAL ACCESSORIES

• GPS~700 series antennas
• ANT series antennas
• Ethernet, CAN and I/O breakout cable
• Serial cable (straight)

FIRMWARE SOLUTIONS

• ALIGN®
• GLIDE™
• RTK
• SPAN®
• RAIM
• API
• NTRIP v1.0 and v2.0
• 100 Hz output rate8

For the most recent details of this product:

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