## Antennas GNSS-750

### REVOLUTIONARY GNSS WIDEBAND ANTENNA ENHANCES ACCURACY AND PERFORMANCE

### SUPPORTS GPS, GLONASS, GALILEO AND BEIDOU

The multi-constellation GNSS-750 antenna from NovAtel delivers next generation choke ring technology, ensuring functionality with existing and planned satellite constellations. The robust, low profile construction makes it ideal for reference stations, geological monitoring and other applications requiring a high performance antenna.

### SUPERIOR PERFORMANCE AND ACCURACY

The innovative design of this 3D antenna improves low elevation tracking.

### **PROVEN ROBUST TECHNOLOGY**

Utilizing an ultra-wideband Dorne-Margolin antenna element, the GNSS-750 optimizes antenna gain, enabling use with most manufacturers' geodetic receivers. The sturdy aluminum alloy construction ensures it can withstand the most difficult environmental conditions.



### BENEFITS

- + High precision measurements
- + More signal observations ensure higher performance
- + Eliminates need to upgrade as future GNSS signals become available
- + Withstands harsh environments

### **FEATURES**

- + Stable phase center
- + Ultra-wideband Dorne-Margolin element
- + Aluminum alloy construction
- + Tracks signals when visible, down to the horizon and below

If you require more information about our antennas, visit www.novatel.com/antennas



# **GNSS-750**

### PERFORMANCE **Signals Tracked** GPS L1, L2, L2C, L5 **GLONASS** L1, L2, L3 Galileo E1, E5a, E5b, E6, AltBOC BeiDou B1, B2, B3 L-Band 3 dB Pass Band L1 1568.5 ± 55 MHz (typical) L2 $1232 \pm 80$ MHz (typical) **Out-of-Band Rejection** L1 (fc=1568.5 MHz) fc±100 MHz 30 dBc (typical) fc±150 MHz 50 dBc (typical) L2 (fc=1232.5 MHz) fc+150 MHz 30 dBc (typical) fc-150 MHz 50 dBc (typical) fc±100 MHz 30 dBc (typical) Other Bands *f*<900 MHz 80 dBc (typical) f>150 MHz 80 dBc (typical) LNA Gain 41 ±3 dB (typical) Gain at Zenith (90°) L1/E1/B1 +5.0 dBic (minimum) L2/L5/E5 +5.0 dBic (minimum) B2/B3/E6 +5.0 dBic (minimum) **Noise Figure** 2.0 dB (typical) **VSWR** 1.5:1 **Phase Center Offset** <2 mm<sup>1</sup> Altitude IEC-68-2-13 (-400 to +10,400 m)

### PHYSICAL AND ELECTRICAL

Dimensions	380 mm dia x 200 mm
Weight	7.6 kg
Power	
Input voltage	+3.3 to +12.0 VDC
Power consumption	100 mA (typical)
Nominal Impedance	<b>e</b> 50 Ω
Connector	
N-type with TNC adapter supplied	
ENVIRONMENTAL	

### Temperature -55° C to +85° C Operating -55° C to +90° C Storage ISO-9022-13-06 Humidity 100% non-condensing Solar Radiation IEC-68-2-5 **Resistance to Corrosion** IEC-60950-22 IEC-60529 IPX6 and IPX7 Water Ingress **Dust Ingress** IEC-60529 IP6X Salt Fog IEC-68-2-11 Sinusoidal Vibration (operating) ISO 9022-3 Method 36 Shock MIL-STD-810F, 516.5 Compliance FCC, CE

For the most recent details of this product: www.novatel.com/products/gnssantennas/fixed-reference-gnss-antennas/ qnss-750/

### novatel.com

sales@novatel.com

1-800-NOVATEL (U.S. and Canada) or 403-295-4900 China 0086-21-68882300 Europe 44-1993-848-736 SE Asia and Australia 61-400-883-601

Version 6 Specifications subject to change without notice. ©2015 NovAtel Inc. All rights reserved. NovAtel is a registered trademark of NovAtel Inc. Printed in Canada. D13333 November 2015 Ø



