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](http://www.novatel.com/antennas)
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 ± 80 MHz (typical)

Out-of-Band Rejection
- L1 (fc=1568.5 MHz)
  - f<100 MHz 30 dBc (typical)
  - f>100 MHz 60 dBc (typical)
- L2 (fc=1232.5 MHz)
  - f<100 MHz 30 dBc (typical)
  - f>100 MHz 80 dBc (typical)

Other Bands
- f<900 MHz 80 dBc (typical)
- f>100 MHz 80 dBc (typical)

LNA Gain
- 41 ± 3 dB (typical)

Gain at Zenith (90°)
- L1/E1/B1 +5.0 dBi (minimum)
- L2/LS5/E5 +5.0 dBi (minimum)
- B2/B3/E6 +5.0 dBi (minimum)

Noise Figure
- 2.0 dB (typical)

VSWR
- 1.5 : 1

Phase Center Offset
- <2 mm

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 50 Ω

Connector N-type with TNC adapter supplied

ENVIRONMENTAL

Temperature
- Operating -55° C to +85° C
- Storage -55° C to +90° C

Humidity ISO-9022-13-06
- 100% non-condensing

Solar Radiation IEC-68-2-5

Resistance to Corrosion IEC-60950-22

Water Ingress IEC-60529 IPX6 and IPX7

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/gnss-antennas/fixed-reference-gnss-antennas/gnss-750/

cnovatel.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

Antenna calibration data is published on the NGS website:
www.ngs.noaa.gov/ANTCAL/
and Geo++ website:
http://gnpcvdb.geopp.de/pcvdb/GNPCVDB.html

©2015 NovAtel Inc. All rights reserved.
NovAtel is a registered trademark of NovAtel Inc.
Printed in Canada.

D13333 November 2015