

PRECISE THINKING MAKES IT POSSIBLE

NovAtel is an original equipment manufacturer (OEM) that designs, manufactures and sells high-precision Global Navigation Satellite System (GNSS) technology.

Our receivers, antennas, components and subsystems are at the heart of many of the world's most exciting precise positioning applications.

The markets we serve are wide and varied, including aviation, survey, geomatics, machine control, mining, agriculture, marine and defense. Whatever your application, NovAtel technology will give you the advantage.

To learn more, visit www.novatel.com



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ANTENNAS



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ANTENNAS

NovAtel’s antennas combine exceptional performance with unsurpassed reliability to suit a wide variety of markets and applications, including survey, agriculture, mapping/GIS, aerial, defense and reference installations.

NovAtel manufactures leading-edge antennas designed for single (L1), dual (L1/L2) or triple (L1/L2/L5) frequency coverage, as well as for multiple (GPS, GLONASS, Galileo and COMPASS) satellite constellation operation. Several models offer L-band capability for reception of signals from the OmniSTAR and Canada-wide Differential GPS (CDGPS) correction services. All antennas meet the European Union’s Restriction of Hazardous Substances (RoHS), Waste Electrical and Electronic Equipment (WEEE) and Registration, Evaluation, Authorisation and Restriction of Chemical Substances (REACH) Directives. NovAtel antennas complement its OEMV® receiver family for satellite-based positioning and for its SPAN™ (Synchronized Position, Attitude and Navigation) technology family for inertial augmentation.

FAA Airworthiness Certification is available on many avionic models. NovAtel’s patented Pinwheel™ technology is used in all GPS-701, 702 and 703 antennas, providing geodetic-level phase center stability and superior multipath rejection.

GPS-700 Series Pinwheel Antennas



The GPS-700 Series contains NovAtel’s exclusive high-precision Pinwheel antenna technology. Recognized for providing superior multipath rejection and a highly stable phase center, Pinwheel antennas provide the performance of a choke ring antenna without the cumbersome size and weight.

The GPS-700 Series incorporates single, dual and triple frequency antennas with GPS, GLONASS, Galileo, and L-band signal tracking capabilities. Compact with a light-weight form factor, they are waterproof to IEC 60529 IPX7 and are designed in accordance with military specifications for vibration and salt spray.

For more information, go to:
<http://www.novatel.com/products/antennas.htm>

Reference Station Antenna



The GNSS-750 revolutionary choke ring antenna supports GPS, GLONASS, Galileo, and COMPASS satellite signals. Its unique 3-D conic form factor enhances low-elevation tracking and provides excellent multipath mitigation. Cast with aluminum alloy, the GNSS-750 can withstand severe environmental conditions, making it ideal for reference stations, monitoring, seismic stations, scientific and other applications requiring a robust high-performance antenna.

For more information, go to:
http://www.novatel.com/products/gnss_750

ANT Series Antennas



ANT Series antennas are robust, high-quality GNSS antennas that are available in a range of sizes, form factors, and configurations. They can be designed to suit the needs of your application, or can be configured to enhance specific performance requirements. For example, our Arinc 743 and mini-Arinc have been designed specifically for aircraft or unmanned vehicle applications. The ANT G5 Series includes filters to optimize RTK performance.

For more information, go to:
<http://www.novatel.com/products/antennas.htm>

Or refer to our subsidiary Antcom Antenna website for GNSS plus a wide range of additional antennas types including Iridium, Beidou, Inmarsat and more:
www.antcom.com

Product Specifications

Dimensions	185 mm (diameter) x 69 mm	380 mm (diameter) x 200 mm
Weight	500 g	7.6 kg
Input Voltage	+4.5 to +18.0 VDC	+3.3 to +12.0 VDC
Power Consumption	<36 mA	<100 mA
Antenna Element Gain	L1: +5.0, L2: +2.0, L5: +3.0, L-band: +6.0	L1/E1/B1/L2/L5/E5/B2/B3/E6: +5.0
LNA Gain	29 dBc (typical)	43 dBc (typical)
Noise Figure	<2.0 dB	<2.0 dB
VSWR (typical)	<2.0 : 1	<2.0 : 1
Signals Tracked	GPS-701-GG: L1 GPS, L1 GLONASS GPS-701-GGL: L1 GPS, L1 GLONASS, L-band GPS-702-GG: L1/L2 GPS, L1/L2 GLONASS GPS-702-GGL: L1/L2 GPS, L1/L2 GLONASS, L-band, GPS-702L: L1/L2 GPS, L-band GPS-703: L1/L2/L5 GPS, L1/L2 GLONASS, L1/E5a/E5b/E6 Galileo	GNSS-750: L1/L2/L2C/L5 GPS, L1/L2/L3 GLONASS, L1/E5a/E5b/E6/AirBOC Galileo, COMPASS B1/B2/B3, L-band

For information on specific antennas, visit the NovAtel or Antcom websites listed above or contact your local sales representative or dealer.