Novatel's Precise thinking makes it possible

Precise thinking

NovAtel designs, markets and sells high-precision GNSS (Global Navigation Satellite System) receivers and other positioning components and subsystems used in a variety of applications within the aviation, geomatics (surveying and mapping), mining, precision agriculture, marine and defense industries.

We put our precise thinking to work by developing products that combine hardware, such as receivers and antennas, with software to enable customers to fully integrate our high-precision GNSS technology into their systems.

NovAtel is also the principal supplier of reference receivers to national aviation ground networks in the US, Japan, Europe, China and India.

To learn more about how NovAtel's precise thinking can benefit you, visit www.novatel.com.



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RoHS







NovAtel provides a variety of antennas designed for single (L1) or dual (L1/L2) frequency coverage, as well as antennas designed for single (GPS) or dual (GPS+GLONASS) satellite constellation operation. Additional models offer L-band capability for reception of signals from the OmniSTAR and the Canada-wide Differential GPS (CDGPS) correction service. NovAtel antennas are designed to meet the European Union's Restriction of Hazardous Substances (RoHS) directive that came

ANT-A72GA-TW-N

The ANT-A72GA-TW-N antenna is ideal for airborne and other high dynamic applications. This antenna is designed to the ARINC 743A standard, weighs less than 200 grams and includes a four-hole mounting system for secure installation. The ANT-A72GA-TW-N antenna includes an FAA airworthiness certificate.



ANT-532-C

198 g

 \leq 3.0 dB

≤ 1.5 : 1

Size

Weight

Input Voltage

3 dB Band Pass

VSWR (typical)

Power Consumption

Noise Figure (typical)

76 x 119 x 18 mm

+2.5 to +24.0 VDC

< 35 mA typical

L1: 1575 ± 12 MHz L2: 1227 ± 12 MHz

into effect on July 1, 2006. Our antennas are designed to complement the OEMV receiver family for satellite-based positioning and for the SPAN[™] (Synchronized Position Attitude Navigation) Technology family for inertial augmentation.

NovAtel's antennas combine exceptional performance with unsurpassed reliability to suit a wide variety of markets including survey, agriculture, mapping/GIS, aerial and reference installations. FAA Airworthiness Certification is available on the A72GA-TW-N, A7GLA4-TW-N, and 35C50P1GLA-TW-N models. Patented Pinwheel[™] technology is used in all 701 and 702 antennas to provide

ANT-35C50P1GLA-ANT-35CIGA-TW-N ANT-A7GLA4-TW-N The ANT-35CIGA-TW-N TW-N The ANT-A7GLA4-TW-N antenna is designed for The ANT-35C50P1GLAantenna is designed to Nov/Ate single frequency GPS TW-N antenna is designed receive dual frequency GPS reception, and it is for a variety of mobile signals as well as other intended for airborne use applications. It is L-band signals, such as ANT-26C1GA-TBW-N and other mobile applications. an active antenna with a **OmniSTAR and CDGPS. The** The spherical radius molded This compact, versatile removable ground plane ANT-A7GLA4-TW-N radome provides enhanced single frequency GPS and survey mount. The antenna includes an FAA protection against rain antenna is designed for any ANT-35C50P1GLA-TW-N Airworthiness Certificate. and ice. The ANT-35CIGAmobile application. Its is designed to operate at lightweight yet rugged TW-N antenna includes an the GPS L1 frequency, the FAA Airworthiness design combined with low GLONASS L1 frequency, Certificate. power consumption make ANT-C2GA-TW-N as well as the L-band it an ideal antenna for frequencies used by the The ANT-C2GA-TW-N is a almost any environment. OmniSTAR and CDGPS high-performance L1/L2 NovAtel correction services. Its choke ring antenna which mechanical configuration substantially reduces the is a spherical radius molded effects of multipath, radome which provides making it ideal for use in a enhanced protection DGPS base station or other against rain and ice. demanding applications. The antenna features an integrated protective NovAtel radome to withstand harsh environments and meets DO-160D standards. ANT-534-C 89 mm (dia 76 x 119 x 20 mm 66 mm (diameter) x 18 mm 308 mm (diameter) x 223 mm 89 mm (diameter) x 18 mm 185 g or 38 191 g 4.1 kg 184 g 113 g (with grou +2.5 to +24.0 VDC +2.5 to +24.0 VDC +2.5 to +24.0 VDC +2.5 to +24.0 VDC +2.5 to +24 < 35 mA typical < 30 mA typical < 30 mA typical < 39 mA ty < 35 mA typical L1: 1575 ±13 MHz L1: 1575 ± 20 MHz L1: 1575 ±12 MHz L1: 1575 ±12 MHz L1: 1525 to L2: 1227 ±13 MHz L2: 1227 ± 15 MHz L-band: 1542 ±17.5 MHz ≤ 1.9 dB ≤ 2.2 dB \leq 2.4 dB < 2.1 dB \leq 3.0 dB ≤ 1.5 : 1 ≤ 1.5 : 1 ≤ 1.5 : 1 ≤ 1.5 : 1 < 1.5 : 1

geodetic-level phase center stability and superior multipath rejection at a fraction of competiitors' size and weight.





GPS-701-GG and GPS-702-GG

These antennas are designed to receive signals from the GPS and GLONASS satellite systems, and they include patented Pinwheel[™] technology to provide superior multipath rejection in a compact and lightweight antenna. A highly stable antenna phase center makes the 701-GG (L1 only) and 702-GG (L1 and L2) antennas the perfect choice for high precision applications. Both antennas are waterproof to IEC 60529 IPX7 and meet the MIL-STD-810F specification for vibration and salt spray, resulting in an antenna suitable for adverse conditions.

ameter) x 18 mm	185 mm (diameter) x 69 mm
85 g nd plane and adapter)	500 g
4.0 VDC	+4.5 to +18.0 VDC
ypical	35 mA typical
o 1616 MHz	L1: 1588 ± 23 MHz L2: 1236 ± 18 MHz*
	≤ 2.0 dB
	≤ 2.0 : 1
	*GPS-702-GG only

GPS-701-GGL, GPS-702-GGL, and GPS-702L

The GPS-702L offers a single antenna solution for GPS L1 and L2 frequencies, as well as the L-band frequencies used by the OmniSTAR and Canada-wide Differential GPS (CDGPS) correction services. This Pinwheel[™] antenna features improved RTK performance with superior multipath rejection for high accuracy, real-time performance in any positioning mode.

The 701-GGL and the 702-GGL are dual frequency constellation antennas which are capable of receiving L-band signals.



701-GGL	702-GGL	702L
185 mm (diameter) x 69 mm	185 mm (diameter) x 69 mm	185 mm (diameter) x 69 mm
500 g	500 g	500 g
+4.5 to +18.0 VDC	+4.5 to +18.0 VDC	+4.5 to +18.0 VDC
35 mA typical	35 mA typical	35 mA typical
L1: 1575 ± 20 MHz* L-band: 1543 ± 20 MHz	L1: 1575 ± 20 MHz* L2: 1228 ± 20 MHz* L-band 1543 ± 20 MHz	L1: 1525 to 1585 MHz L2: 1217 to 1257 MHz L-band 1525 to 1585 MHz
≤ 2.5 dB	≤ 2.5 dB	≤ 2.5 dB
≤ 2.0 : 1	≤ 2.0 : 1	≤ 2.0 : 1
*Different if GLONASS is included (L1: 1588.5 ± 23.0 MHz) (L2: 1236.0 ± 18.3 MHz)	*Different if GLONASS is included (L1: 1588.5 ± 23.0 MHz) (L2: 1236.0 ± 18.3 MHz)	