

## WARRANTY POLICY

NovAtel Inc. warrants that its Global Positioning System (GPS) products are free from defects in materials and workmanship, subject to the conditions set forth below, for the following periods of time:

GPSAntenna™ Modules	One (1) Year
Cables and Accessories	Ninety (90) Days

Date of sale shall mean the date of the invoice to the original customer for the product. NovAtel's responsibility respecting this warranty is limited solely to product repair at an authorized NovAtel location only. Determination of repair will be made by NovAtel personnel or by technical personnel expressly authorized by NovAtel for this purpose.

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There are no user-serviceable parts in the GPSAntenna and no maintenance is required. When the GPSCard status code indicates that the unit is faulty, replace with another unit and return the faulty unit to NovAtel Inc.

You must obtain a RETURN MATERIAL AUTHORIZATION (RMA) number by calling GPS Customer Service at 1-800-280-2242 (North America only) or 403-295-4900 before shipping any product to NovAtel or Dealer.

Once you have obtained an RMA number, you will be advised of proper shipping procedures to return any defective product. When returning any product to NovAtel, please return the defective product in the original packaging to avoid ESD and shipping damage.

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## NovAtel L1/L2/L-Band GPSAntenna™ Model 600-LB

- User Information -



### INTRODUCTION

The performance of the Model 600-LB can be summarized as follows:

- Very good sensitivity to right hand circularly polarized signals over a wide range of elevations and in all azimuth directions
- Excellent amplitude radiation pattern roll-off near the horizon, in effect eliminating multipath-generated replicas of the original line-of-sight (LOS) signal
- Excellent reception of low elevation angle satellites (i.e. OmniSTAR, GPS)
- Common location and stable phase center for both L1 and L2 (The phase center in the x and y-axis is located in the center of the antenna for both channels due to its inherent symmetry and co-centric type design.)
- Enhanced immunity against electromagnetic interference
- Better radiation “hardening” from lightning or EMP (electromagnetic pulse) effects
- High-speed transient voltage suppressor
- Operational temperature range from cold to hot extremes

The Model 600-LB can be distinguished from other GPS-600 models by its grey rim.

### DESCRIPTION

The Model 600-LB GPSAntenna is an active antenna designed to operate at the GPS L1 (1575.42 MHz), the GPS L2 (1227.60 MHz) and the OmniSTAR L-Band (LB) (1520-1565 MHz) frequencies. The antenna element is coupled to a low-noise amplifier (LNA). The unit is optimized to receive right-hand-circularly-polarized signals, and its radiation pattern is shaped to ensure high quality signal reception from OmniSTAR and other geostationary satellites. The antenna is also optimized to minimize multipath reception.

The Model 600-LB GPSAntenna is intended for kinematic positioning such as GIS, marine and mobile applications. The sealed radome allows the antenna to be used in severe weather, marine applications and hostile environments. The unit's compact size and light weight ensure its portability.

Both the input DC power and the output RF signal flow over a single coaxial cable connected to the unit's TNC female connector.

To mount the antenna, ensure that the adapter is screwed into the antenna base (finger tighten only). It is best to leave this adapter in at all times as it protects the plastic threads

