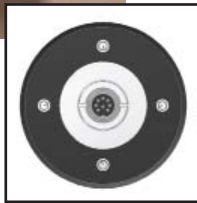


GPS Timing, 40dB With Integrated Receiver And Integrated Lightning Protection



GPS Timing Antenna with Receiver (top); bottom view (inset)



Features

- Integrated GPS antenna and receiver in one rugged housing
- Quadrifilar helix element for optimal coverage and multipath rejection
- Embedded low noise amplifier with preselector and interstage filter for minimizing interference
- Low power consumption (500 mW typical)
- Input voltage 8-12 V
- Lightning Protection Compliance per EN61000-4-5 Level 4

Antenna Specifications

Frequency Band	Antenna Gain	Polarization
1575.42 +/- 10 MHz	4 dBic (Quadrifilar Helix)	Right hand circular (RHCP)

Receiver Specifications

General	Update Rate	Accuracy
L1 (1575.42 MHz) frequency, C/A code, 12-channel, continuous tracking receiver	NMEA@ 1 Hz	Horizontal: <3 m (50%), <8 m (90%) Altitude: <10 m (50%), <16 m (90%) PPS (static): ± 50 nanoseconds



Acquisition (Autonomous Operation)	Sensitivity	PPS	Protocols	Interface
Reacquisition: 2 sec typical Hot start: 9 sec typical Warm Start: 36 sec typical Cold Start: 39 sec typical Out of the Box: 41 sec typical	Tracking: -150 dBm Acquisition: -142 dBm	Once per second TTL-level pulse (RS232 only) Differential pulse (RS422 only)	NMEA 0183 v3.0 Bi-directional NMEA messages Messages selectable by NMEA commands Selection stored in flash memory	RS232 or RS422 options

Mechanical Specifications

Antenna Dimensions	Shipping Dimensions	Antenna Weight	Shipping Weight	Radome Color	Connector
5.0" H x 3.2" D (126 H x 81 mm)	7.5" L x 4.4" W x 3.8" D (190 L x 112 x 96 mm)	0.6 lbs (0.3 kg)	1.9 lbs (0.9 kg)	White	8-pin circular connector conforming IEC 60130-9.v3.0

Environmental Specifications

Operating Temperature	Humidity	Ingress Protection
- 40°C to + 85°C	95%	IP67

Model Numbers

All mounting options fit pipes of 1"-1.45" (25 mm-37 mm) maximum diameter.

RS232 Interface Models	RS422 Interface Models	Description
GPS-TMG-RCVR232	GPS-TMG-RCVR422	Timing antenna (does not include mounting hardware).
GPS-TMG-RCVR232NLM	GPS-TMG-RCVR422NLM	Timing antenna includes L-bracket mount (GPS-TMG-LMNT)
GPS-TMG-RCVR232NCB	GPS-TMG-RCVR422NCB	Timing antenna includes heavy duty mount (GPS-TMG-HDMNT)