

W4 Passive GPS Antenna

Ultra-high Performance

Ward's Passive GPS Antenna is an ultra-high performance, low power, industrial grade smart antenna for continuous tracking of fleet vehicles.* The built-in SiRFstar III chip and our special streamline design provide fast signal acquisition and excellent performance at any speed.



KEY FEATURES

- Accuracy within 2 meters
- 159dBm tracking sensitivity for faster position fix
- LED position fix indicator
- Waterproof
- Easy Installation
- Low power: 29/31/44mA at continuous tracking
- Based on SiRF's GSC3f flow power, single chip
- Backup battery support

* See the Ward Brochure for our Solutions Overview.

Performance Specifications

Receiver Type	20 channel, L1 frequency, C/A code
Horizontal Position	< 2.5m - autonomous
Accuracy	< 2.0m (WAAS) (50% 24hr static, -130dBm)
Velocity Accuracy	<0.01 m/s (speed) <0.01° (heading) (50%@30m/s)
Time To First Fix	Autonomous
Start Up	
Hot	<1 second
Warm	<35 second
Cold	<35 second
Sensitivity	-142dBm (acquisition)
Autonomous	-159dBm (tracking)
Max. Update Rate	1Hz
Max. Velocity	<1,852 km/hr
Protocol Support	NMEA v3.00, 4800bps N,8,1; GGA, GSA, GSV, RMC, VTG
SBAS Support	WAAS, EGNOS, MSAS - optional
Dynamics	<4G

Physical

Dimensions	36 x 42 x 15mm (W x D x H)
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Environmental Limits

Operating Temp	-40 ~ 85°C -20 ~ 60°C - battery
Max. Altitude	<18,000 m

Power Requirements

Supply	3.3 ~ 5.5 VDC
Consumption	29mA/average tracking (GR-301T) 31mA/average tracking (GR-301R) 44mA/average tracking (GR-301U)

