The GM-R500 GPS receiver provides EverMore's latest 12-channel GPS technology, contained inside a mouse-like box with a host connection cable.The GM-R500 pushes forward EverMore's high standard for rapid startup time and high performance in foliage and urban canyon environments. Applications will benefit from improved reliability provided by the new 500 GPS receiver. The Receiver applies the latest semiconductor technology to reduce power consumption and provide robust performance.The GM-R500 feature set includes NMEA-0183 output, one serial I/O, and position & velocity filtering. With Flash-based program memory, the firmware is upgradable, thus protecting your GPS investment.

The GM-R500 is an all-in-one GPS receiver that is designed for the end-users with less understanding on GPS knowledge. It is ready for use with PDA, Notebook, and PC in various situations: Marine, Land Survey, travel assistance and Vehicle tracking.

Features:

- Built-in patch antenna
- Enhance LED indicator
- Receiver, Twelve parallel tracking channels
- Fast TTFF and low power consumption
- On-board rechargeable battery sustained real-time clock and memory for fast satellite acquisition during power-up

Applications:

- Land/Marine Navigation
- Telematics
- Fleet Management
- Asset Tracking
- Timing Reference

Specification:

Features	Description
General	L1 1575.42MHz, C/A code, 12-channel, Carrier-Aided with HWTrack©
Sensitivity	-143 dBm minimum
Update Rate	1Hz
Accuracy	Position: 15m CEP without S/A Velocity: 0.1 m/sec without S/A Time: ± 1μs
WAAS Accuracy	Position: 5m CEP Velocity: 0.05m/sec
Acquisition	Cold start: < 120sec (typical) Warm start: < 45sec (typical) Hot start: < 15sec
Reacquisition	<100msec
Dynamics	Altitude: -1000m to 18000m Velocity: 500 m/sec Acceleration: ±4g
Protocol	EverMore Private @ 4800/9600 baud, 8-None-1 NMEA-0183 v2.20 @ 4800/9600 baud, 8-None-1
NMEA Message	GGA, GLL, GSA, GSV, RMC, and VTG
Interface	PS/2 or RS-232 or USB
Dimension/ Weight	56mm x 53 mm x 22.5 mm/ 81g