



EverMore GM-R306-AA series is a high sensitivity GPS receiver, This product is based on EverMore chipset in 12 channel GPS receivers solution. The GPS module receiver will track up to 12 satellites at a time while providing fast time-to-first-fix and 1Hz navigation updates. It is far reaching capability meets the sensitivity & accuracy requirements of car navigation as well as other location-based applications, such as AVL system. PDA, Notebook operated navigation system.

The GM-R306-AA design utilizes the latest surface mount technology and high level circuit integration to achieve superior performance while minimizing dimension and power consumption. This hardware capability combined with software intelligence makes the board easy to be integrated and used in all kinds of navigation applications or products. The module communicates with application system via RS-232 level with NMEA-0183 protocol.

Features:

- EverMore Chipset 12 Channels all in view tracking
- High Sensitivity -143dBm
- Reacquisition Time: 0.1 second
- Support Standard NMEA-0183 at 4800 bps baud rate
- High Accuracy GPS Receiver
- DGPS : WAAS/EGNOS
- 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 all in view tracking
Sensitivity	-143 dBm (typical)
Update Rate	1 Hz
Accuracy	Position: <15m(95%) without S/A Velocity: 0.1 m/sec without S/A Time: ± 100ns synchronized to GPS time
Acquisition	Cold start: 120 sec average Warm start: 45 sec average Hot start : 15 sec average
Dynamics	Altitude : 18,000m Max Velocity: 500m/s Acceleration: 4g Max
Reacquisition Time	0.1 second
Datum	WGS-84
Protocol	NMEA-0183 V2.2 , Baud rate: 4800 , 8-None-1
NMEA Message	Default : GGA, GSA, GSV, RMC
DGPS	WAAS/EGNOS
Primary Power	5VDC ± 0.5Vp-p ripple
DC Current	125 mA
Operation Temperature	-30°C to +80°C
Storg Temperature	-40°C to +90°C
Operating Humidity	5% to 90% non-condensing
Antenna	Active Antenna
Cable Length	PS/2 Cable 30cm , Active Antenna 2M
Interface Connector	PS/2 Male , RS-232 Level
Dimension/ Weight	58.2 mm x39.9 mm x 21.5mm / 84g

* Preliminary Specification, Subject To Change without Notice