



## **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**
- **On-board rechargeable battery sustained real-time clock and memory for fast satellite acquisition during power-up**
- **Built-in patch antenna**
- **Interference filter to major VHF channels of marine radar**
- **DGPS : WAAS /EGNOS support**
- **Support RS-232 or RS-422 Interface**
- **Support 1 PPS output**

## **Applications**

- **Marine Navigation**
- **Fishing Aid**
- **Fleet Management**
- **Time Synchronization Control**
- **Vehicle Tracking**
- **Robotic**



## Specification

### Performance Specification

Features	Description
General	L1 1575.42MHz, C/A code, 12-channel all in view tracking
Sensitivity	-143 dBm minimum
Update Rate	1Hz
Accuracy	Position: <15m(95%) without S/A Velocity: 0.1m/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
Reacquisition	0.1 second
Datum	WGS- 84
DGPS	WAAS/EGNOS
Dynamics	Altitude: 18,000m Max Velocity: 500m/s Acceleration: 4g Max
Antenna	Built-in Patch Antenna

### Environmental Specification

Features	Description
Operation Temperature	-30°C to +80°C degrees Celsius
Storage Temperature	-40°C to +90°C degrees Celsius
Operating Humidity	5% to 95%

### Physical characteristics

Features	Description
Input current	Maximum 150mA
Dimensions	Diameter: 77.5mm or 3.05-inch, Height: 85.7mm or 3.37-inch
Weight	8.46oz or 240g



## Exactime 300 *GPS Timing Devices*

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### Protocol

Features	Description
Protocols	NMEA-0183 v2.20 at 4800 baud rate , 8-None-1
NMEA messages	Default : GGA, GSA, GSV, RMC

### Interface Specification

Features	Description
Interface	RS-232 or RS-422
Power Input	VDC 9V-34V
Cable Length	10M ( RS-232 or RS-422 ) , Optional 15/30/60M for RS-422