

Exactime 300 *GPS Timing Devices*



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**

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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 |

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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 |



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