

## **MR-350**

### **GPS Receiver**

Ver 1.0



#### **Features:**

SiRF star high performance GPS Chip Set

Very high sensitivity (Tracking Sensitivity: -159 dBm)

Extremely fast TTFF (Time to First Fix) at low signal level

Support NMEA 0183 data protocol

Built-in SuperCap to reserve system data for rapid satellite acquisition

Built-in patch antenna

RS232 interface

Waterproof

For Marine Navigation, Car Navigation or Fleet Management, etc

#### **Specification:**

##### **General**

Chipset	SiRF Star
Frequency	L1, 1575.42 MHz
C/A code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Sensitivity	-159 dBm

**Accuracy**

Position	10 meters, 2D RMS 5 meters, 2D RMS, WAAS enabled
Velocity	0.1 m/s
Time	1us synchronized to GPS time

**Datum**

Default	WGS-84
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**Acquisition Time**

Reacquisition	0.1 sec., average
Hot start	8 sec., average
Warm start	38 sec., average
Cold start	42 sec., average

**Dynamic Conditions**

Altitude	18,000 meters (60,000 feet) max
Velocity	515 meters /second (1000 knots) max
Acceleration	Less than 4g
Jerk	20m/sec **3

**Power**

Main power input	4.5V ~ 6.5V DC input
Power consumption	70mA

**Protocol**

Baud rate	4,800 bps
Output message	NMEA 0183 GGA, GSA, GSV, RMC, VTG, GLL

**Physical Characteristics**

Dimension	62mm diameter, 21mm height
Cable length	4.5 meters

<b>Operating temperature</b>	-40 to +85
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