

## **GM-88U Marine GPS Receiver/Antenna**

- ❑ GPS Receiver / Antenna
- ❑ Provides real time GPS position
- ❑ uBLOX Chipset
- ❑ Interface RS-232
- ❑ Waterproof



### ***Description:***

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The GM-88U is a GPS receiver specifically designed for marine use. It has a waterproof housing with integrated antenna and four threaded holes for attachment.

It offers a compact solution for navigation at sea.

It is available with RS-232 serial interface.

The GM-88U supplies in real-time the position, speed and direction in NMEA 0183 to your navigation display, PC or laptop.

It can operate with any NMEA-compatible Navigation Software.

### ***Applications:***

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- Navigation and positioning at sea
- Positioning and timing in difficult environments
- Application for marine Navigation
- In-vehicle navigation / location for public safety and emergency
- Fleet management GPS system

# Specifications:

# GM-88U

## ***Mechanical Data:***

Size (Diameter x H)	80mm x 25mm
Weight	100gram (without cable)
Cable	4m central exit
Mounting	4 x M3 screw holes
Housing color	white

## ***Environmental Conditions:***

Operating Temp.	-30 °C ~ + 80 °C
Storage Temp.	-40 °C ~ + 85 °C

## ***Communication:***

Protocol	NMEA V3.00, UBX binary
Signal level	RS-232

## ***Interface Capability:***

Standard Output Sentences	GGA, GLL, GSA, GSV, RMC, VTG
Optional	ZDA

## ***Performance:***

Receiver architecture	50 parallel channels
Built-in Antenna	Ceramic patch
Sensitivity	-160 dBm
	1 sec. (hot start)
Start up time (typical)	50 sec. (warm start)
	50 sec. (cold start)
Position accuracy	2,5m (with SBAS 2m)
Velocity accuracy	0.1 knot RMS steady state
Velocity max.	500 m/s
Altitude max.	50 km
Update Rate	1 Hz (standard) ~ 5 Hz
Power Supply	8V ~ 35V DC
Current Consumption	Acquisition: 75 mA
	Tracking : 47 mA
Baud Rate	4800 bps (default)
	Option: 4800/19200/ 38400/57600/115200)

## ***Cable Pinout:***

Black (thick)	Cable shield
Black (thin)	Data and power ground
Red	Power +
Green	RX (Data In)
Orange	TX (Data Out)

## ***Shipment:***

- Receiver with 4m cable attached

## ***Ordering Information:***

**GM-88U** Receiver with 4m open cable (no connector)

## ***Contact us:***

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