

GM-88U Marine GPS Receiver/Antenna

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



Description:

The **GM-88U** is a GPS receiver specifically designed for marine use. It has a waterproof housing with integrated antenna and four M3 threaded holes for attachment.

It offers a compact solution for navigation at sea.

It is offered 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:

- 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	9600 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)

On request, supplied with RS232 connector and power leads

Shipment:

- Receiver with 4m cable attached

Ordering Information:

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

Contact us:

TecSys GmbH

Karl-Theodor-Str. 70

80803 Munich

Germany

Email: sales@tecsys.de

Internet: www.tecsys.de

Phone: +49 89 321 990 - 0

Fax: +49 89 307 21 65

