

## GU-168

## GPS Receiver

- Small and inexpensive
- GPS receiver / antenna
- U-blox-8 chipset
- Real-time support for PC
- Waterproof
- RS232 or USB versions



### Description:

The GU-168 is a very small GPS receiver with a magnetic base and threaded holes for screw mounting.

It has a waterproof housing with an integrated antenna.

The device offers a compact solution for locating vehicles and navigating at sea.

The GU-168 provides the real-time position & directions in NMEA 0183 on the RS232 or USB interface.

This device can work with any NMEA compatible navigation software.

### USB Version:



### Applications:

- Navigation and positioning
- Allows streets & routes to be displayed using GPS map software
- Travel and route planning
- Position and time information

# GU-168 Technical Data

## **Mechanical Data:**

Size in mm (LxWxH)	58 x 48 x 15
Weight	Receiver: 68g Complete: 132g
Cable	3m
Mounting	magnetic + screw mount
Housing color	dark grey

## **Environmental Conditions:**

Operating Temp.	-30°C ~ +80°C
Storage Temp.	-35°C ~ +85°C

## **Communication:**

Protocol	NMEA 0183
Signal level	RS-232 bzw 5V USB

## **Interface Capability:**

Standard Output Sentences	GGA,RMC,GSV,GSA,VTG,LL
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## **Performance:**

Built-in Antenna	Ceramic patch
Sensitivity	-164 dBm
Receiver architecture	32 parallel channels 3 sec. (hot start)
Start up time (typical)	35 sec. (warm start) 41 sec. (cold start)
Position accuracy	Autonomous Pos. Error 2,5 m CEP
Velocity	500 m/s
Altitude	50 km
Update Rate	1 Hz (standard) to 10Hz
Power Supply	5V DC
Current Consumption	Acquisition: 59 mA Tracking: 33 mA
Baud Rate	9600 bps (default) Option: 4800/19200/ 38400/57600/115200)

## **Contents:**

### **RS232 Version**

Receiver  
5m cable with PS2 Connector  
12V Car Adapter to PS2

### **USB Version**

Receiver  
3m cable with USB Connector

## **Ordering information:**

<b>GU-168-RS232-GPS</b>	RS-232 DB-9 interface
<b>GU-168-USB-GPS</b>	USB interface

## **Contact Data:**

**TecSys GmbH**  
Karl-Theodor-Str. 70  
80803 Muenchen  
Germany

Email: [sales@tecsys.de](mailto:sales@tecsys.de)  
Internet: [www.tecsys.de](http://www.tecsys.de)  
Phone: +49 89 321 990 11  
Fax: +49 89 307 21 65

### RS232 Version:

