

# Data Sheet GU-168

## GPS Receiver (“Mouse”), GU-168



### Description

The GU-168 is a very small GPS receiver with a magnetic base and threaded holes for a screw attachment. It has a waterproof case with a built-in antenna.

The device offers a compact solution for locating vehicles as well as navigating the sea.

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

This device can work with any NMEA compatible navigation software.

- Small and inexpensive
- GPS receiver / antenna
- U-blox-6 Chipset
- Real-time support for PC
- Waterproof
- RS232 or USB port

### Application

- Navigation and Positioning
- Enables road & route display through GPS mapping software
- Travel and route planning
- Position and time indication

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## Specifications

Mechanical Data	
Size in mm (LxWxH)	46 x 38 x 16
Weight	Receiver: 64g / Complete: 268g
Mounting	magnetic + screw mount
Housing color	dark grey
Environmental Conditions	
Operating Temp.	80°C~ -30°C
Storage Temp.	85°C ~ -35°C
Communication	
Protocol	NMEA / UBX binary
Signal level	EIA/TIA-232 bzw. 5V USB
Interface Capability	
Standard Output	GGA,RMC,GSV,GSA,VTG,GLL
Sentences	(option: ZDA)
Performance	
Built-in Antenna	Ceramic patch
Sensitivity	(-158 dBm)
Receiver architecture	50 parallel channels
Start up time (typical)	1 sec. (hot start) / 35 sec. (warm start) / 41 sec. (cold start)
Position accuracy	Autonomous Pos. Error 2,5m CEP
Velocity	500 m/s
Altitude	50 km
Update Rate	1 Hz (standard)
Power Supply	5V DC
Current Consumption	Aquisition: 67 mA / Tracking: 47 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  
5m Cable with USB Connector

## Ordering Information:

**GU-158-RS232** (RS-232 DB-9 Interface)  
**GU-158-USB** USB version  
**GU-158-USB:FZ1** USB Version with internal battery for faster start-up

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### Photo



RS-232\_version