



## Cabled GPS

### GM-2

GM-2 series is a cabled GPS solution with 57 x 64 x 16 mm in size. Equipped with antenna, back up battery GPS engine and onboard memory, it provides superior navigation performance under dynamic conditions in areas with limited sky view like urban canyons. High sensitivity up to **-165dBm** for weak signal operation without compromising accuracy. GM-2 is your best choice for cabled GPS applications.



#### Key Features :

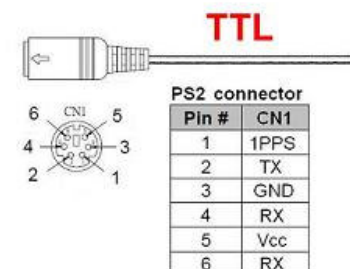
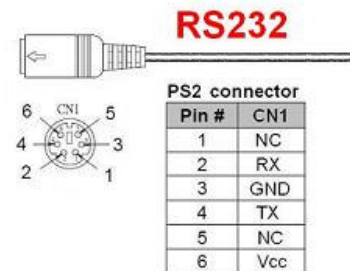
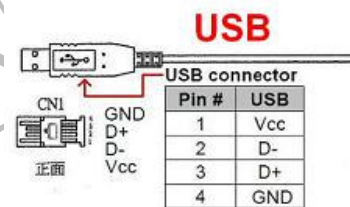
- Receiver / Logger version available
- Lead-Free – RoHS/WEEE compliant
- Tracks 66-Channel of satellites
- Fast Position Fix
- Low power consumption
- USB / UART / TTL interface
- LED indication for GPS status
- Build-in re-chargeable backup battery
- Up to 125,000 way points ( Logger version )
- Support Smart log function ( Logger version )
- IPX7 waterproof

#### Applications :

- Automotive and Marine Navigation
- Automotive Navigator Tracking
- Emergency Locator
- Geographic Survey

#### Pin Assignment

Pin #	Signal Level		
	USB	RS-232	TTL
1	Vcc	NC	1PPS
2	D-	RX	TX
3	D+	GND	GND
4	GND	TX	RX
5	N/A	NC	VCC
6	N/A	Vcc	RX



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## Specifications

Specification	Description
General	L1 frequency, C/A code (SPS) 66 independent tracking channels
Sensitivity	-165dBm /Tracking
Update Rate	Up to 5Hz
Accuracy	<3m CEP, without aid DGPS (WAAS, EGNOS, MSAS, RTCM): 2.5m
Acquisition (open sky)	Cold Start: 35sec Warm Start: 34sec Hot Start: 1.5sec
Reacquisition	< 1sec
Dynamics	Altitude: 18000m (max.) Velocity: 515m/sec (max.) Vibration: 4G (max.)
Supply Voltage	DC 5V $\pm$ 5%
Power Consumption	40mA max. @ 5.0V / Tracking
Backup Battery	Build-in
NMEA Message	NMEA0183 v3.1 baud rate 4800/9600/.../57600, default 9600 Selectable Output: GGA, GLL, GSA, GSV, RMC, and VTG Default Output: GGA · GSA · GSV · RMC
Datum	Default WGS-84
Antenna	Build-in 25*25*4 mm patch antenna, right hand circular polarization, 50ohm
Log capability	Up to 125,000 way points, logger model only Default: Date/Time · Latitude · Longitude · Height · Speed
Smart log capability	Yes, logger model only
Mac support	Yes
Signal Level	USB, RS-232 or Low Voltage TTL
Connector	USB type A male or PS2 male
Operating Temperature	-30°C to 85°C
Storage Temperature	-40°C to 85°C
Operating Humidity	$\leq$ 95%, non condensing
Dimension	57 x 64 x 16 mm

\*Specifications subject to change without prior notice.

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## Order information

Model No.	Log Capability	Signal Level	Connector
GM-2 RU	No	USB	USB type A male
GM-2 LU	Yes	USB	USB type A male
GM-2 RP	No	RS-232	PS2 male
GM-2 LP	Yes	RS-232	PS2 male
GM-2 RT	No	Low Voltage TTL	PS2 male
GM-2 LT	Yes	Low Voltage TTL	PS2 male

PRELIMINARY