EN: This Datasheet/Document is presented by the manufacturer.

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POLSTAR
www.polstargps.com

PGM-648

High Sensitivity
GPS Mouse Receiver

- Built-in SiRF star III chipsets receivers give unparalleled GPS performance and precision.
- Built-in WAAS/EGNOS Demodulator.
- 20 parallel satellite-tracking channels for fast acquisition and reacquisition.
- Low power consumption and ultra mini size only 41 x 41 x 18 mm.
- Built-in rechargeable battery for memory and RTC backup
- Support NMEA0183 v2.2 data protocol.
- Enhanced algorithms providing superior navigation performance in urban, canyon and foliage environments.
- For Car Navigation, Marine Navigation, Fleet Management, AVL and Location-Based Services, Auto Pilot, Personal Navigation or touring devices, Tracking devices/systems and Mapping devices application.
- Water proof design for all weather.
- Optional USB cable, PDA connector.



SPECIFICATIONS

Receiver:	Tracking up to 20 satellites L1,1575.42MHz, C/A code
Accuracy:	Position: 2DRMS approximately 5m, WAAS SUPPORT. Velocity: 0.1 m/sec without SA imposed. Time: ±1μ sec
Acquisition Time:	Cold start: 42 sec (Average) Warm start: 38 sec (Average) Hot start: 1 sec (Min.)
Sensitivity:	Acquisition: -148 dBm Tracking: -159 dBm
Dynamics:	Altitude: 18,000m (Max.) Velocity: 515 m/s (Max.) Acceleration. ±4g (Max.)
Navigation update rate :	Once per second
Serial Port :	TTL & RS232
Baud Rate :	4800 bps (optional 9600 bps, 19200 bps, 38400 bps)
Output Message:	NMEA 0183 V2.2 GGA, GSV, GSA, RMC, (optional VTG,GLL)
Datum:	WGS 84
Power supply :	DC 3.3~5V
Power Consumption :	Typical 80mA@5V.
LED Function:	Power on/off and Navigation
Operating Temp.:	-10°~ +70°C
Storage Temp.:	-40°~ +100°C
Humidity:	5%~95%
Antenna Type:	Built-in Patch Antenna.

PGM-648 Pin Assignment



Mini Din 6 Pin Male Plug (PS/2 Male Plug)

