

POLSTAR

www.polstargps.com

PGM-248

High Sensitivity GPS Mouse Receiver



POLSTAR

Polstar Technologies Inc.

TEL: + 886 - 3 - 552-5279 FAX: + 886 - 3 - 552-5269

Address : 5F-1, NO.28, Taiyuan St., Zhubei City, Hsinchu County 30288, Taiwan.

Longitude : E 121° , 0' , 49.7"

Latitude : N 24° , 50' , 30.2"

PGM-248

- * Built-in SONY's newest 4th generation CXD2951GA-4 dedicated single chip for GPS.
- * Built-in WAAS/EGNOS Demodulator.
- * 12 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 12 satellites L1,1575.42MHz, C/A code
Accuracy:	Position: 2DRMS approximately 2m, WAAS SUPPORT. Velocity: 0.1 m/sec without SA imposed. Time: $\pm 1 \mu$ sec
Acquisition Time:	Cold start: 40 sec (Average) Warm start: 33 sec (Average) Hot start: 2 sec (Min.)
Sensitivity:	Acquisition: -139 dBm Tracking: -152 dBm
Dynamics:	Altitude: 18,000m (Max.) Velocity: 500m/sec (Max.) Acceleration: $\pm 4g$ (Max.)
Navigation update rate:	Once per second
Serial Port :	TTL and RS-232
Baud Rate :	4800 bps (optional 9600 bps, 19200 bps, 38400 bps)
Output Message:	NMEA0183 V2.2 GGA, GSV, GSA, RMC, (optional VTG, GLL)
Datum:	WGS84
Power supply :	DC 5.0V $\pm 5\%$
Power Consumption :	Typical 80mA @5V.
LED Function:	Power on/off and Navigation
Operating Temp.:	-40 $^{\circ}$ ~ +85 $^{\circ}$ C
Storage Temp.:	-40 $^{\circ}$ ~ +100 $^{\circ}$ C
Humidity:	5%~95 %
Antenna Type:	Built-in Patch Antenna.

PGM-248 Pin Assignment



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



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