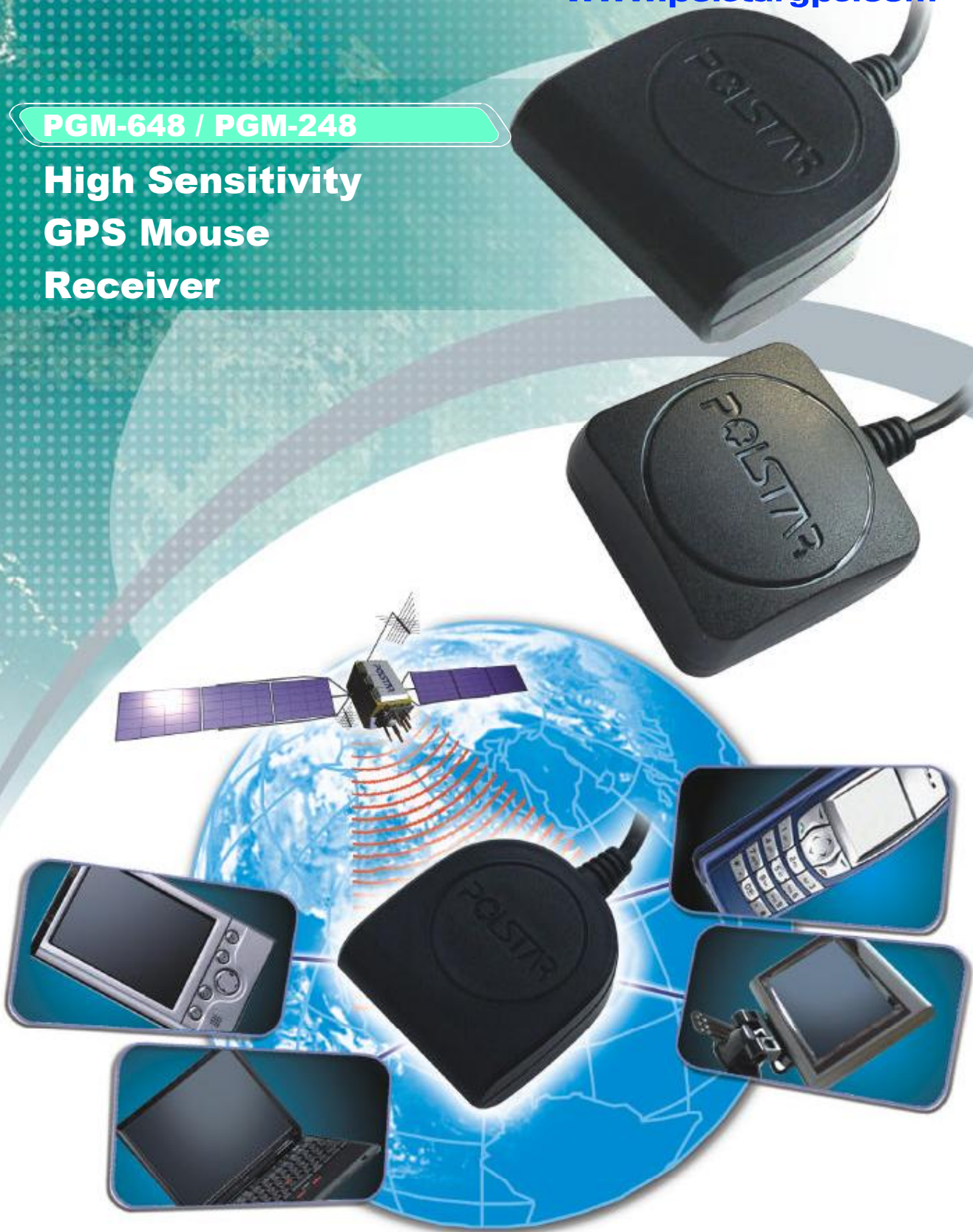


PGM-648 / PGM-248

High Sensitivity GPS Mouse Receiver



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"

- * Built-in SiRFstarIII chipsets receivers give unparalleled GPS performance and precision. 20 parallel satellite-tracking channels for fast acquisition and reacquisition.
Built-in Sony CXD2951GA-4 chipsets receivers give the better Time-To-First-Fix (TTFF) for positioning. 12 parallel satellite-tracking channels for fast acquisition and reacquisition.
- * Built-in WAAS/EGNOS Demodulator.
- * 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 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

	PGM-648	PGM-248
GPS IC	SiRFstarIII	SonyCXD2951GA-4
Receiver:	Trackingupto20satellitesL1,1575.42MHz, C/Acode	Trackingupto12satellitesL1,1575.42MHz, C/Acode
Accuracy:	Position: 2DRMS approximately 5m, WAASsupport Velocity: 0.1 m/s withoutSAimposed. Time: ±1 μsec	Position: 2DRMS approximately 2m, WAASSUPPORT. Velocity: 0.1 m/sec withoutSAimposed. Time: ±1 μsec
Acquisition Time:	Cold Start: 42sec(Average) WarmStart: 38sec(Average) Hot Start: 1sec(Min.)	Coldstart: 45sec(Average) Warmstart: 35sec(Average) Hot start: 2sec(Min.)
Sensitivity:	Acquisition: -144dBm Tracking: -159dBm	Acquisition: -139 dBm Tracking: -152dBm
Dynamics:	Altitude: 18000m (Max.) Velocity: 515m/s(Max.) Acceleration: ±4g (Max.)	Altitude: 18,000m (Max.) Velocity: 500 km/hr (Max.) Acceleration: ±4g (Max.)
Navigation update rate :	Once per second	Oncepersecond
SerialPort :	TTLandRS-232	TTL and RS-232
Baud Rate :	4800bps(Optional9600,19200,38400bps)	4800bps(optional9600bps,19200bps,38400bps)
Output Message:	NMEA0183 GGA, GSV, GSA, RMC (optional VTG, GLL)	NMEA0183 GGA, GSV, GSA, RMC, (optionalVTG,GLL)
Datum:	WGS 84	WGS84
Power supply :	DC3.3V~5V	DC3.3V~5V
Power Consumption :	Typical 65mA	Typical 80mA
LED Function:	Poweron/off andGPS status	Power on/off andGPS status
Operating Temp.:	-40°C~+85°C	-40°C~+85°C
Storage Temp.:	-40°C~+100°C	-40°C~+100°C
Humidity:	5%~95%	5%~95%
Antenna Type:	Built-in PatchAntenna	Built-in PatchAntenna.

PGM-248 Pin Assignment



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

