

## High Sensitivity GPS Receiver

- Full navigation accuracy provided by Standard Positioning Service (SPS).
- Supports high sensitivity for very weak signal acquisition and tracking.
- Integrated powerful CPU, base band and RF front-end hardware in a SOC (System On Chip) design reduces the space and power consumption in state of the art.
- Advanced IC technology reduces overall receiver cost.
- The receiver can receive up to 12 satellites simultaneously.
- Fast TTFF for cold start, warm start and hot start.
- High performance firmware allows excellent positioning speed.
- A serial communication channel, with user selectable baud rates, allows maximum interface capability and flexibility.
- Includes battery backup to maintain internal clock for fast acquisition.
- RS232 and TTL standard.
- Optional USB cable, PDA connector.
- Integrated status indicator light



Mobile/Indoor/Outdoor



PC/Laptop/PDA/Custom



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Size 1.6" x 1.6" x 0.7" (41mm x 41mm x 16mm)

### Specifications

- Accuracy: Position: 5m w/o S/A
- Velocity: 0.1 m/sec w/o S/A
- Time:  $\pm 1$ micro-second
- Acquisition : Cold start: 50 sec(Average)
- Warm start: 35 sec (Average)
- Hot start: 2 sec (Min.)
- Sensitivity : Acquisition: -139 dBm
- Tracking: -152 dBm
- Dynamics : Altitude: max. 18,000m
- Velocity: max. 500m/sec
- Acceleration. max.  $\pm 4g$
- Navigation update rate :Once per second
- Serial I/O: TTL and RS-232 I/O, 4800 baud NMEA0183: GGA, GSV, GSA,RMC,(optional VTG,LL)
- Coordinate Datum :WGS 84
- Power supply :+5.0 to 9.0 Volts DC
- Power consumption : Typical (tracking): 120mW
- Sleep mode power saving : Yes (automatically)
- RTC support :Yes
- Water-Proof : Yes
- System Performance : Tracks up to 12 satellites
- Operating Temp. : -40°~ +85°C, Storage: -55°~ +100°C
- Humidity : 5%~95%



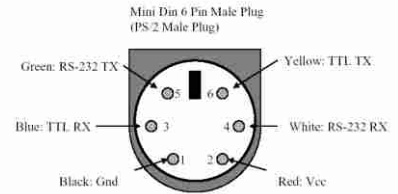


# PGM-111 GPS Receiver

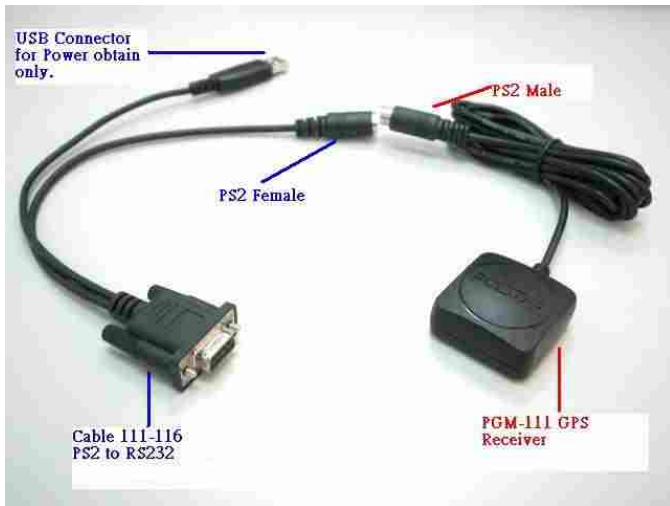


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## PGM-111 Standard GPS Configuration



PGM-111 Standard GPS Configuration with Mini Din 6 Mail Plug - Pinout



PGM-111 GPS receiver with optional 9-pin RS-232 interface cable. The cable includes a USB plug used to obtain power from the PC.



PGM-111 GPS with optional USB adapter cable. The cable includes an integrated USB to TTL converter.



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