

- ✍ **Built-in SONY's newest GPS chip CXD2951.**
- ✍ **.12 parallel satellite-tracking channels for fast acquisition and reacquisition.**
- ✍ **.Low power consumption and ultra mini size, only 41x 41mm.**
- ✍ **.Built-in rechargeable battery for memory , RTC backup, and Fast Time To First Fix (TTFF).**
- ✍ **.Support NMEA0183 v2.2 data protocol.**
- ✍ **.Enhanced algorithms provide superior navigation performance in urban, canyon and foliage environments.**
- ✍ **.For Car Navigation , Marine Navigation, Fleet Management , AVL and Location Based Services (LBS) , Auto Pilot ,Personal Navigation or Touring devices ,Tracking devices/systems and Mapping devices application.**
- ✍ **.Waterproof design for all weather.**
- ✍ **.Optional USB cable,PDA connector.**



Accuracy: Position: 5m w/o S/A
 Velocity: 0.1 m/sec w/o S/A
 Time: $\pm 1 \mu$ sec

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 : Series TTL and RS-232 I/O
 4.8K (optional 9.6K)
 NMEA 0183:GGA, GSV, GSA , RMC,(optional VTG,GLL)

Coordinate Datum :WGS 84

Power supply :+5.0VDC and up to 9.0V DC

Power consumption :
 Typical (tracking): 120mW

System Performance :
 Tracks up to 12 satellites
 L1, C/A code

Operating Temp. : -40°~ +85°C
 Storage Temp. : -55°~ +100°C
 Humidity : 5%~95%



Size :41x41 mm

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PGM-111 Pin Assignment



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

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