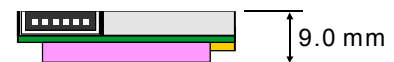
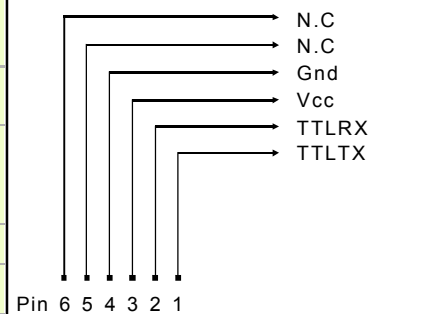


High Sensitivity GPS Module

- 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 33 x 39mm.
- 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.
- Include RF MMCX connector (Optional : Active Antenna)

SPECIFICATIONS

	PMB-688	PMB-288
GPS IC	SiRFstarIII	SonyCXD2951GA-4
Receiver:	Tracking upto 20 satellites L1, 1575.42MHz, C/Acode	Tracking upto 12 satellites L1, 1575.42MHz, C/Acode
Accuracy:	Position: 2DRMS Approximately 5m, WAAS support Velocity: 0.1m/s without SA imposed. Time: $\pm 1 \mu$ sec	Position: 2DRMS Approximately 2m, WAAS SUPPORT. Velocity: 0.1m/sec without SA imposed. Time: $\pm 1 \mu$ sec
Acquisition Time:	Cold Start: 42sec (Average) Warm Start: 38sec (Average) Hot Start: 1sec (Min.)	Cold start: 45sec (Average) Warm start: 35sec (Average) Hot start: 2sec (Min.)
Sensitivity:	Acquisition: -148dBm Tracking: -159dBm	Acquisition: -139dBm Tracking: -152 dBm
Dynamics:	Altitude: 18000m (Max.) Velocity: 515m/s (Max.) Acceleration: $\pm 4g$ (Max.)	Altitude: 18,000m (Max.) Velocity: 500m/sec (Max.) Acceleration: $\pm 4g$ (Max.)
Navigation update rate :	Once per second	Once per second
Serial Port :	TTL	TTL
Baud Rate:	4800 bps (Optional 9600, 19300, 38400bps)	4800 bps (optional 9600bps, 19200bps, 38400bps)
Output Message:	NMEA0183 V2.2 GGA, GSV, GSA, RMC (optional VTG, GLL)	NMEA0183 V2.2 GGA, GSV, GSA, RMC, (optional VTG, GLL)
Datum:	WGS84	WGS 84
Power supply :	DC 3.3V ~ 5V	DC 3.3V ~ 5V
Power Consumption :	Typical 65mA @ 5V	Typical 80mA @ 5V.
LED Function:	Power on/off and Navigation	Power on/off and Navigation
Operating Temp.:	-40°C ~ +85°C	-40° ~ +85°C
Storage Temp.:	-40°C ~ +100°C	-40° ~ +100°C
Humidity:	5% ~ 95%	5% ~ 95%
Antenna Type:	Built-in Patch antenna	Built-in Patch Antenna.
RF Connector :	MMCX type (Optional : Active Antenna)	MMCX type (Optional: Active Antenna)



Connector Pitch 1.25 mm

