High Sensitivity GPS Module

- Built-in Sony CXD2951GA-4 chipsets receivers give unparalleled GPS performance and precision.
- Built-in WAAS/EGNOS Demodulator.
- 12 parallel satellite-tracking channels for fast acquisition and reacquisition.
- Low power consumption and ultra compact size-only 32x32x9mm.
- Allow the receiver to track up to 12-channel satellites.
- Built-in rechargeable battery for memory and RTC backup.
- Supports NMEA0183 v2.2 data protocol.
- Enhanced algorithms providing superior navigation performance in urban, canyon and foliage environments.
- Applications include Vehicular Navigation. Marine Navigation. Fleet management, AVL and Location-Based Services, Autopilot.

SPECIFICATIONS

Receiver :	Tracking up to 12 satellites L1, 1575.42 MHz, C/A code
Accuracy :	Position: 2DRMS approximately 2m, WAAS support Velocity: 0.1 m/s without SA imposed Time: 1！sec
Acquisition Time :	Cold Start: 40s (Average) Warm Start: 33s (Average) Hot Start: 2s (Minimum)
Sensitivity :	Acquisition: -139dBm Tracking: -152dBm
Dynamics :	Max Altitude: 18000m Max Velocity: 500m/s Max Acceleration: ！4g
Navigation Update Rate :	Once per second
Serial Port :	TTL, RS232
Baud Rate :	4800 bps (Optional 9600,19300,38400 bps)
Output Message :	NMEA0283 V2.2 GGA, GSV, GSA, RMC (optional VTG, GLL)
Datum :	WGS 84
Power Supply :	DC 3.3~5V
Power Consumption :	Typical 80mA @5V
LED Indicator :	Power On/Off Navigation
Operating Temperature :	-40"~ +85"C
Storage Temperature :	-40 "~ +100"C
Humidity :	5%~95%
Antenna Type :	Built-in patch antenna

Top View

32mm

32mm

1　6

Connector Pitch 1.25mm

Side View

9.0 mm

Pin 1 2 3 4 5 6

RS-232 RX
RS-232 TX
Gnd
Vcc
TTLRX
TTL TX