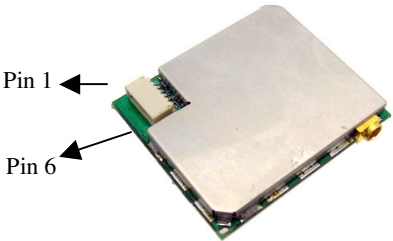


General usage	
Features	- GPS Module
Temperature	- Operating : -40 ~ +85 °C (except for SRAM battery backup -20 to +60 degree Celsius) - Storage : -40 ~ +85 °C (except for SRAM battery backup -40 to +60 degree Celsius)
Operation	- Stand-alone
Size	- Dimension: (L)35± 0.3mm*(W)31± 0.3mm*(H)6.55 ± 0.5mm (TBD) - Width (including External Antenna RF Input): 31± 0.3mm - Width (un-including External Antenna RF Input): 30± 0.3mm
Weight	- ≤11.6g (TBD)
Voltage Type	- DC 3.3V ±5%
Power Consumption	- Acquisition:50mA (typical) Tracking:45mA (typical)
RoHS	- Supported
WEEE	- Supported

Hardware Specification	
GPS	
Chipset	- SiRF StarIII GSC3F/LP
Frequency	- L1, 1,575.42 MHz
Channel	- 20 parallel
C/A Code	- 1,023 MHz
Fix time	- Reacquisition: less than 1s - Hot start: 1s @Open sky - Warm start: 35s @Open sky - Cold start: 35s @Open sky
Accuracy	- Position: within 10m for 90% - Velocity: 0.1m/s
Interface Protocol	- NMEA 0183 ver 3.0
Baud Rate	- 9600bps, 8 data bits, no parity, 1 stop bit - Adjustable by firmware
Trickle power mode	- Yes
Internal Memory	- Flash type on 4Mb
TCXO	- 16.369MHz
DGPS	- WAAS, EGNOS
SRAM Backup Battery	- 3.3mAh Li-Ion rechargeable battery - Battery life at full charge is ≥ 7 days
Antenna	- Build in Patch Antenna - Dimension 25mm x 25mm x 2mm
Dynamics	
Altitude	- 18,000 meter maximum
Velocity	- 514 meter/second maximum
Interface	
I/O pin--6 pins, Wire-to-Board connector	<div> Pin 1 GPS TTL RX Pin 2 GPS TTL TX Pin 3 GND Pin 4 DC 3.3V±5% Pin 5 GPS Status Pin 6 Reserved </div> 
External Antenna RF Input	- Connector Type: MMCX - Drive Output Voltage: 2.85V±0.5% - Drive Output Current: 30mA (Max)

Mechanical Diagram :

