wi2wi
Wireless 2 Wireless

W2SG0021i

Product Brief

General Description

This specification provides a general guideline on the performance and the integration of the Wi2Wi Inc. Global Navigation Satelite System Module Solution. This new solution is optimised to enable highly accurate location positioning by supporting concorrent GPS, GLONASS, and QZSS (Galileo Ready). The new solder-down module,based on SiRF Star V Chipset is targeted to assist companies to easily integrate GNSS functionally into their products. This is accomplished by reducing their development times and cost by using a complete, small form factor, low power, ready to integrate GNSS Receiver System Solution.
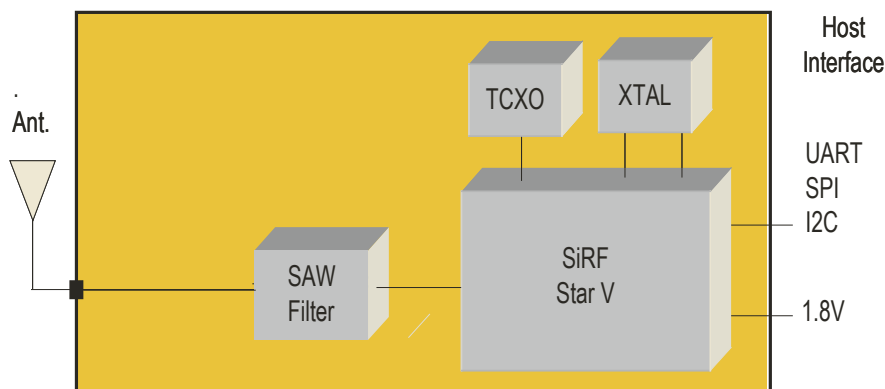
Features

- GNSS technology based upon by the CSR/SiRF™ SiRFStar V™
- Concurrent tracking of GPS, GLONASS, and QZSS
- Compact design for easy integration:
   7.0mm x 7.0mm x 2.0mm
- Ultra-low power consumption
- 50Ω Antenna Launch
- SBAS (WAAS or ENGOS) support
- Single 1.8 VDC supply input
- Format Selectable Output Data: NMEA and OSP (SiRFBinary™)
- I2C interface support for alternate Host or sensor support like Compass or Accelerometer for Dead Reckoning applications
- RoHS Compliant

Applications

- **Personal Navigation Devices (PNDs)**
- **Mobile Internet Devices**
- **Smart Phones**
- **Gaming Systems**
- **Asset Tracking**
- **Personnel Locators**
- **UAVs**
- **Personal Digital Assistants (PDAs)**
- **POS Terminals**
- **Logistics Management Terminals**

Target Specifications

- **Package Dimensions**
   7.0mm(L) x 7.0mm(W) x 2.0mm(H)
- **Input Power**
   Supply Voltage : 1.8VDC
   Peak Current : 64mA
- **Temperature Range**
   -40˚ C to + 85˚ C
- **Input/Output**
   UART, I2C, SPI
- **TTFF (-130 dBm)**
   Hot start <1 s
   Warm start <30 s
   Cold start <35 s
- **Sensitivity**
   Acquisition (GPS -146 dBm)
   Tracking(GPS -162 dBm, GLONASS -165 dBm)
   Navigation (GPS -162 dBm, GLONASS -158 dBm)

The preliminary specification is intended for advance information only, and is subject to change without notification.