wi2wi
Wireless 2 Wireless

Product Brief

W2SG0008i

For the latest datasheets, please visit the Extranet Portal at http://www.wi2wi.com/mgr/

General Description

This specification provides a general guideline on the performance and the integration of the Wi2Wi Inc. 48 Channel GPS Receiver Module Solution. The new solder-down module, based on SiRF Star IV Chipset is targeted to assist companies to easily integrate GPS 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 GPS Receiver System Solution.
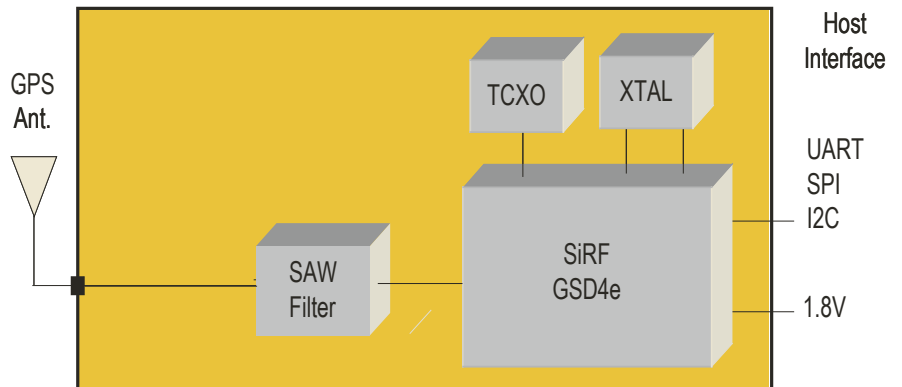
Features

- GPS technology based upon by the CSR/SiRF™ SiRFStar IV™
- Compact design for easy integration:
  6.75mm x 6.75mm x 2.0mm
- Ultra-low power consumption
- High sensitivity nav. engine (PVT) tracks as low as -163dBm
- 50Ω Antenna Launch
- 48 verification channel GPS receiver
- Active Jammer Remover:
  - Removes in-band jammers up to 80 dB-Hz
  - Tracks up to 8 CW jammers
- 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

Target Specifications

- Package Dimensions
  6.75mm(L) x 6.75mm(W) x 2.0mm(H)
- Input Power
  Supply Voltage : 1.8VDC
  Peak Current : 100 mA
- Temperature Range
  -40˚ C to + 85˚ C
- Input/Output
  UART/I2C
- Acquisition Time
  Hot Start TTFF @ -136 dBm: 0.6 sec
- Receiver Sensitivity
  Min. Acquisition Signal: -153 dBm
- Timing Accuracy
  - 1 PPS : 1 µS
- Position Accuracy (3D-NAV)
  Stationary Horizontal (AV): 3m

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

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