

Jupiter

SE 880

GPS module

Embedded



actual size

Product features

- Dimensions: 4.7 x 4.7 x 1.4 mm
- Weight: 0.08 g
- 34-pad QFN package, requiring only 2 Layer PCB
- Frequency Band: GPS L1 Band, C/A Code
- Standards: NMEA
- 48 Channel GPS architecture
- Sensitivity
 - Acquisition: -148 dBm
 - Navigation: -163 dBm
 - Tracking: -165 dBm
- Power supply 1.8 V
- Positional Accuracy (CEP50): Autonomous Positional Error < 1.8 m
- Accuracy
 - Speed: < 0.01 m/s
 - Heading: < 0.01 deg
- Time To First Fix (90% @ -130 dBm)
 - Hot Start: 1 s
 - Cold Start: < 35 s
- Current consumption
 - Hibernate Mode current: 14 uA
 - Low power mode (Tracking 1 Hz): 10 mA
 - Average full power tracking in LDO mode: 35 mA
 - average full power tracking in switcher mode: 28 mA
- RoHS compliant
- Temperature Range
 - Operating temperature: -40 to +85°C
 - Storage temperature: -40 to +85°C

- Direct couple to passive antenna
- 1 SV Fast Time Setting
- Internal LDO and Switcher mode
- EGNOS, WAAS, GAGAN and MSAS capability embedded with correction of positional errors due to ionospheric and orbital disturbances
- Data logging
- Micro Power Management mode maintaining HOT Start conditions with average of 50~500 uA current consumption.

Interfaces

- UART, SPI and I2C interfaces
- PPS for precise timing
- SPI Flash interface
- TCXO interface supporting both dedicated TCXO and clock sharing
- RTC for efficient power management

Additional features

- A-GPS: ephemeris file injection

Order No.

Please contact your Telit representative for order codes and all further information and additional details

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