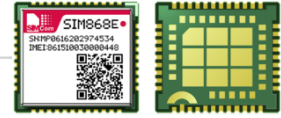




GSM/GPRS+GNSS Module

SIM868E



SIM868E module is a complete Quad-Band GSM/GPRS module which combines GNSS(GPS/GLONASS/BDS) technology for satellite navigation. The compact design with LCC and LGA pads will significantly save both time and costs for customers to develop GNSS enabled applications. It is fully pin-to-pin compatible with SIM868, and supports both BT4.0 and BT3.0 specifications. BLE (Bluetooth Low Energy) technology features ultra-low peak, average and idel mode power consumption, Featuring an industry-standard interface and GNSS function, it allows variable assets to be tracked seamlessly at any location and anytime with signal coverage.

Smart Machine Smart Decision

General features

- Quad-band 850/900/1800/1900MHz
- GPRS multi-slot class 12/10
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
 - Class 4 (2 W @ 850/900MHz)
 - Class 1 (1 W @ 1800/1900MHz)
- Support GPS/GLONASS/BD
- Dimensions: 17.6*15.7*2.3mm
- Weight: 1.5g
- Control via AT commands (3GPP TS 27.007, 27.005 and SIMCom enhanced AT Commands)
- BT4.0 Current Consumption
 - Advertising : 1.46mA
 - Connection : 1.55mA
- Supply voltage range 3.4 ~ 4.4V
- Low power consumption
- Operation temperature:-40°C ~85°C

Specifications for GPRS Data

- GPRS class 12: max. 85.6 kbps (downlink/uplink)
- PBCCH support
- Coding schemes CS 1, 2, 3, 4
- PPP-stack
- USSD

Specifications for SMS via GSM/GPRS

- Point to point MO and MT
- SMS cell broadcast
- Text and PDU mode

Software features

- 0710 MUX protocol
- Embedded TCP/UDP protocol
- FTP/HTTP
- MMS
- POP3/SMTP
- DTMF
- Jamming Detection
- Audio Record
- SSL

Specification for GNSS

- Receiver type
 - 33 tracking /99 acquisition -channel
- Sensitivity
 - Tracking: -167 dBm
 - Reacquisition: -161 dBm
 - Cold starts : -149 dBm
- Time-To-First-Fix
 - Cold starts: 28s (typ.)
 - Hot starts: <1s
 - Warm starts: 22s
- Accuracy
 - Horizontal position : <2.5m CEP

Interfaces

- 77 SMT pads
- SIM Card Interfaces
 - SIM card: 3V/ 1.8V
- Analog audio interface
- Bluetooth
 - BT4.0 BLE Profile: GATT/PXP/FMP
 - BT3.0 Profile: SPP/HFP-AG
- RTC GNSS backup
- I2C interface
- USB interface
- Serial interface
- SD
- GPIO
- ADC
- GSM Antenna pad
- GNSS Antenna pad
- Bluetooth Antenna pad

Certifications

- CE
- FCC
- ROHS
- REACH
- CCC
- TA

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