



GSM/GPRS+GNSS Module

SIM868



SIM868 module is a complete Quad-Band GSM/GPRS module which combines GNSS 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. 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)
- 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)
- 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
 - 22 tracking /66 acquisition -channel
 - GPS L1 C/A code
- Sensitivity
 - Tracking: -166 dBm
 - Cold starts : -148 dBm
- Time-To-First-Fix
 - Cold starts: 29s (typ.)
 - Hot starts: <1s
 - Warm starts: 22s
- Accuracy
 - Horizontal position : <2.5m CEP

Interfaces

- 77 SMT pins including
 - SIM Card Interfaces
 - SIM card: 3V/ 1.8V
 - Analog audio interface
 - RTC GNSS backup
 - I2C interface
 - USB interface
 - Serial interface
 - SD
 - GPIO
 - ADC
 - GSM Antenna pad
 - GNSS Antenna pad
 - Bluetooth Antenna pad

Certifications

- CE
- FCC

More about SIMCom SIM868 Please contact:

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