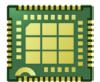


GSM/GPRS+GNSS-Module

SIM868





SIM868 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. 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)
- •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
- •RTC GNSS backup
- •I2C interface
- •USB interface
- Serial interface
- •SD
- •GPIO
- •ADC
- •GSM Antenna pad
- •GNSS Antenna pad

Certifications

- •CF
- •FCC
- •ROHS
- •REACH
- •CCC
- •TA

More about SIMCom SIM868 Please contact:

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All specifications are subject to change without prior notice.