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 which integrated GPRS and GPS/Glonass in a SMT package 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.

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℃ ~85℃

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
•Bluetooth 3.0(optional)

Specification for GNSS

•Receiver type
-33 tracking /99 acquisition channel GNSS receiver
•Sensitivity
-Tracking: -165 dBm
-Cold starts: -148 dBm
•Time-To-First-Fix
-Cold starts: 28s (typ.)
-Warm starts: 26s
-Hot starts: <1s
•Accuracy
-Horizontal position: <2.5m CEP
-Speed: 0.1m/s

Interfaces

•77 SMT pads including
•Analog audio interface
•SPI interface (optional)
•RTC backup
•Serial interface
•USB interface
•Interface to external SIM 3V/1.8V
•GPIO
•ADC
•GSM Antenna pad
•Bluetooth Antenna pad
•GPS Antenna pad

Certifications(TBD)

•CE
•FCC

More about SIMCom SIM868
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All specifications are subject to change without prior notice.