



GSM/GPRS+GPS Module

SIM808



SIM808 module is a complete Quad-Band GSM/GPRS module which combines GPS technology for satellite navigation. The compact design which integrated GPRS and GPS in a SMT package will significantly save both time and costs for customers to develop GPS enabled applications. Featuring an industry-standard interface and GPS 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)
- Bluetooth: compliant with 3.0+EDR
- Dimensions: 24*24*2.6mm
- Weight: 3.3g
- 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
- CSD up to 14.4 kbps
- 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
- E-MAIL
- DTMF
- Jamming Detection
- Audio Record
- TTS (optional)
- Embedded AT (optional)

Compatibility

- AT cellular command interface

Specification for GPS

- Receiver type
 - 22 tracking /66 acquisition -channel
 - GPS L1 C/A code
- Sensitivity
 - Tracking: -165 dBm
 - Cold starts : -147 dBm
- Time-To-First-Fix
 - Cold starts: 30s (typ.)
 - Hot starts: 1s (typ.)
 - Warm starts: 28s (typ.)
- Accuracy
 - Horizontal position : <2.5m CEP

Interfaces

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

Certifications(Plan):

- CE
- GCF
- FCC
- ROHS
- REACH

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