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℃ ~ 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
- 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

Specifications 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

More about SIMCom SIM808
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All specifications are subject to change without prior notice.