



# GSM/GPRS Module



## SIM800

SIM800 is a complete Quad-band GSM/GPRS solution in a SMT type which can be embedded in the customer applications.

SIM800 support Quad-band 850/900/1800/1900MHz, it can transmit Voice, SMS and data information with low power consumption. With tiny size of 24\*24\*3 mm, it can fit into slim and compact demands of customer design. Featuring Bluetooth and Embedded AT, it allows total cost savings and fast time-to-market for customer applications.

### 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\*3mm
- Weight: 3.14g
- 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
- Non transparent mode

### 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)

### Specifications for voice

- Tricodex
  - Half rate (HR)
  - Full rate (FR)
  - Enhanced Full rate (EFR)
- AMR
  - Half rate (HR)
  - Full rate (FR)
- Hands-free operation  
( Echo suppression )

### Interfaces

- 68 SMT pads including
- Analog audio interface
- PCM interface(optional)
- SD Card 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

### Compatibility

- AT cellular command interface

### Certifications(Plan):

- CE
- GCF
- FCC
- ROHS
- REACH

More about SIMCom SIM800  
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