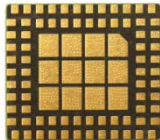




# GSM/GPRS Module



## SIM800L

SIM800L is a complete Quad-band GSM/GPRS solution in a LGA type which can be embedded in the customer applications.

SIM800L support Quad-band 850/900/1800/1900MHz, it can transmit Voice, SMS and data information with low power consumption. With tiny size of 15.8\*17.8\*2.4 mm, it can fit into slim and compact demands of customer design.

## 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 @ 850/900 MHz)
  - Class 1 (1 W @ 1800/1900MHz)
- FM: 76~109MHz worldwide bands with 50KHz tuning step
- Dimensions: 15.8\*17.8\*2.4 mm
- Weight: 1.35g
- 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

### Specifications for voice

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

### Interfaces

- 88 LGA pads including:
- Analog audio interface
  - PCM interface
  - RTC backup
  - Serial interface
  - USB interface
  - Interface to external SIM 3V/1.8V
  - Keypad interface
  - GPIO
  - ADC
  - GSM Antenna pad
  - FM Antenna pad

### Compatibility

- AT cellular command interface

### Certifications(Plan):

- CE
- GCF
- FCC
- ROHS
- REACH