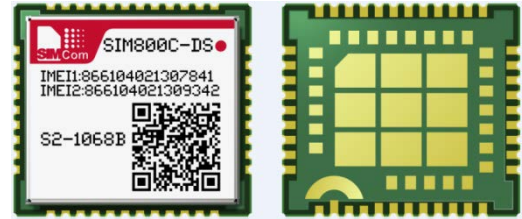




# GSM/GPRS Module



## SIM800C-DS

SIM800C-DS is a complete Quad-band GSM/GPRS solution with LCC and LGA pads, support Dual-SIM, which allows customers to use two SIM cards in one device simultaneously.

SIM800C-DS supports Quad-band 850/900/1800/1900MHz, it can transmit Voice, SMS and data information with low power consumption. With tiny size of 17.6\*15.7\*2.3mm, it can smoothly 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 @ 850/900MHz)
  - Class 1 (1 W @ 1800/1900MHz)
- Dimensions: 17.6\*15.7\*2.3mm
- Weight: 1.3g
- 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
- 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
- TTS\_CN (optional)

### Specifications for voice

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

### Interfaces

- 77 SMT pins including
- SIM Card Interfaces (Dual Standby)
  - SIM card 1: 3V/ 1.8V
  - SIM card 2: 3V/ 1.8V
- Analog audio interface
- RTC backup
- I2C interface
- USB interface
- Serial interface
- PCM
- SD
- GPIO
- ADC
- GSM Antenna pad

### Certification

- CE

### Compatibility

- AT cellular command interface

More about SIMCom SIM800C-DS  
Please contact:  
Tel: 86-21-32523300  
Fax: 86-21-32523020  
Email: [simcom@sim.com](mailto:simcom@sim.com)  
Website: <http://simcomm2m.com/>