

# SIM800C

GSM / GPRS



SIM800C is a complete Quad-band GSM/GPRS solution in a SMT type, which can be embedded in the customer applications.

SIM800C 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.

## Downloads

[SIM800C](#)

[Application Notes](#)

## 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
- SSL
- Bluetooth 3.0(optional)

## **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**

- 42 SMT pins including:

- Analog audio interface
- RTC backup
- USB interface
- Serial interface
- Interface to external SIM 3V/1.8V
- GPIO
- ADC
- GSM Antenna pad
- Bluetooth Antenna pad

## **Compatibility**

- AT cellular command interface

## **Certifications**

- CE
- FCC
- GCF
- TA
- ROHS
- REACH
- CTA
- CCC (on going)

**\*Enhance version support EAT and TTS\_CN function**