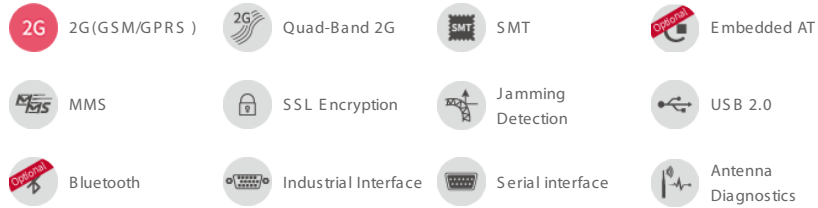


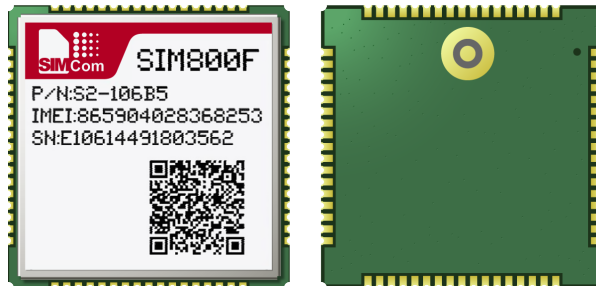
## SIM800F



### SIM800F Introduction

SIM800F is a complete Quad-band GSM/GPRS solution in a SMT type, which can be embedded in the customer applications.

SIM800F supports Quad-band 850/900/1800/1900MHz, it can transmit Voice, SMS and data information with low power consumption. With tiny size of 24\*24\*3mm, it can smoothly fit into slim and compact demands of customer design.



### Details

#### 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: 24\*24\*3mm
- Weight 3.1g
- 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)
- PBCC 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

#### 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 pins including
- Analog audio interface
- RTC backup
- USB interface
- Serial interface
- Interface to external SIM 3V/1.8V
- GPIO
- ADC
- PWM
- I2C
- GSM Antenna pad
- Bluetooth Antenna pad

#### Compatibility

- AT cellular command interface

#### Software features

- 0710 MUX protocol
- Embedded TCP/UDP protocol
- FTP/HTTP
- MMS
- POP3/SMTP
- DTMF
- Jamming Detection
- Audio Record
- SSL
- Bluetooth 3.0 (optional)

#### Certifications

- ROHS
- REACH
- GCF
- CE