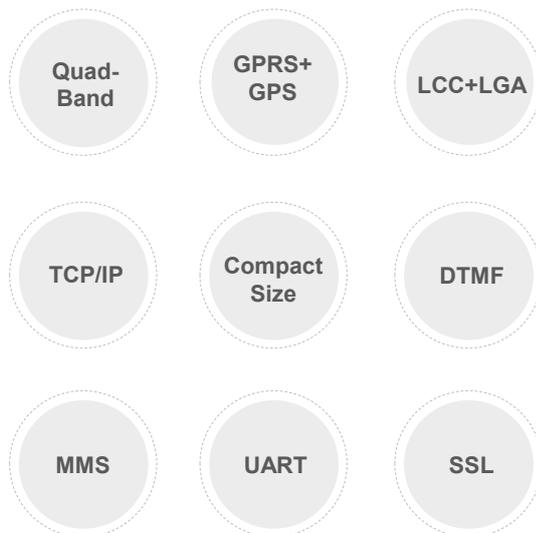
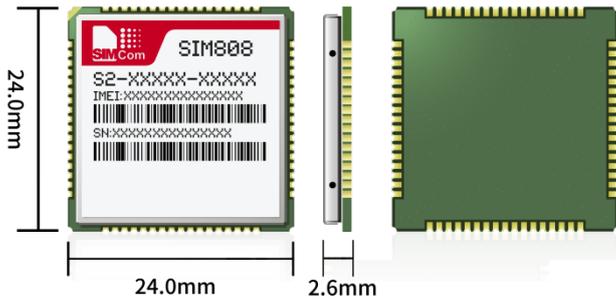


# SIM808

## SIMCom GSM/GPRS+GNSS Module



### Product Description

SIM808 module is the complete Quad-Band GSM/GPRS module which combines GPS technology for satellite navigation. It has strong extension capability with abundant interfaces including UART, USB2.0, GPIO etc. The module provides much flexibility and ease of integration for customer's application.

The form factor of SIM808 is LCC. The compact design with LCC pads will significantly save both time and costs for customers to develop GPS enabled applications. Featuring an industry-standard interface and GPS function, it allows variable assets to be tracked seamlessly at any location and anytime with signal coverage.

Due to the unique combination of performance, security and flexibility, this module is ideally suited for many applications.

### Key Benefits

- ◆ Small size quad-band GSM/GPRS + GPS module
- ◆ LCC form factor with abundant interfaces
- ◆ Abundant software functions: DTMF, MMS, MUX
- ◆ Low Power consumption
- ◆ Embedded TCP/UDP protocols

## General Features

Frequency Bands	850/900/1800/1900MHz
GPRS multi-slot class	12/10
Dimensions	24*24*2.6mm
Weight	3.3±0.1g
Supply Voltage	3.4V ~ 4.4V
Operation temperature	-40°C ~ +85°C
Compliant GSM phase 2/2+	Class 4 (2W @ 850/900MHz) Class 1 (1W @ 1800/1900MHz)
Control Via AT Commands(3GPP TS 27.007, 27.005 & SIMCom enhanced AT Commands)	
Low Power consumption	
GPRS mobile station class B	

## Specifications for GPRS Data

GPRS class 12: Uplink/Downlink up to	85.6Kbps
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	

## Specification for GNSS

Receiver type	22 tracking/66 acquisition channel GPS L1 C/A code
Sensitivity	
-Tracking	-165 dBm
-Cold starts	-148 dBm
Time-To-First-Fix	
-Cold starts	32s(typ.)
-Hot starts	<1s
-Warm starts	3s
Accuracy	
-Horizontal position	<2.5m CEP

## Software Features

0710 MUX protocol	
Embedded TCP/UDP protocol	
FTP/HTTP/POP3/SMTP	
MMS	
DTMF	
Jamming Detection	
Audio Record	
LBS*	
SSL/TLS*	
BT 3.0*	
TTS*	
EAT*	

## Specifications for Voice

Speech Codec Modes	AMR/HR/FR/EFR
Echo Arithmetic	AEC/EES

## Interfaces

Analog audio interface	
UART	
USB	
(U)SIM card(1.8V/3V )	
PCM*	
RTC	
ADC	
I2C	
SPI*	
GPIO	
Antenna: GSM/GPS/BT*	

## Certifications

CE/FCC

### Note

\*: optional