

# SIM7000G

eMTC/NB-IoT/EDGE Module



Global-Band  
LTE

UDP

LCC

VoLTE

Compact  
Size

GNSS

TCP/IP

USB 2.0

HTTP

## Product Description

The SIM7000G is global-Band LTE-FDD、TDD-LTE and Quad-Band GPRS/EDGE module solution in a LCC type which supports LTE CAT-M1(eMTC) and NB-IoT up to 375kbps data transfer.

It has strong extension capability with rich interfaces including UART, USB2.0, GPIO etc. The module provides much flexibility and ease of integration for customer's application.

The package of SIM7000G is compatible with SIM900 and SIM800F. AT commands of SIM7000G are mostly compatible with SIM800F. This also minimizes the investments of customers, and enables a short time-to-market.

It is designed for applications that need low latency, medium throughput data communication in a variety of radio propagation conditions. Due to the unique combination of performance, security and flexibility, this module is ideally suited for M2M applications, such as metering, telematics, asset tracking, remote monitoring , E-health , mobile pos terminals and sharing bike.

## Key Benefits

- With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7000G can extend battery life to 10 years
- SIM7000G provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7000G mostly are compatible with SIM900 and SIM800F.

**Smart machine Smart decision**

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## General Features

Global-Band LTE CAT-M1:  
B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28/B39;  
Global-Band LTE CAT NB-IoT1:  
B1/B2/B3/B5/B8/B12/B13/B17/B18/B19/B20/B26/B28;  
GPRS/EDGE 850/900/1800/1900Mhz  
Control Via AT Commands  
Supply voltage range: 3.0V~ 4.3V, Typ: 3.8V  
Operation temperature: -40°C to +85°C  
Dimensions: 24 X 24 X 2.6mm  
Weight: 3.0g  
GNSS (GPS, GLONASS, BeiDou)

## Data

### LTE CAT-M1(eMTC)

- Uplink up to 375kbps, Downlink up to 300kbps

### NB-IoT

- Uplink up to 66kbps, Downlink up to 34kbps

### EDGE Class

- Uplink up to 236.8Kbps, Downlink up to 236.8Kbps

### GPRS

- Uplink up to 85.6Kbps, Downlink up to 85.6Kbps

## Specifications for SMS

Point to point MO and MT  
Text and PDU mode

## Other Features

USB Driver for Microsoft Windows XP/Vista/7/8/10  
USB Driver for Linux  
Firmware update via USB  
TCP/IP  
UDP  
PPP  
SMS  
MQTT  
FTP/HTTP/SSL  
FOTA  
VoLTE\* (CAT-M1)  
EMAIL\*

## Interfaces

USB2.0 x1 (high-speed)  
UART x2 (7-wire UART and 2-wire UART interface multiplex from GPIO)  
SIM card x1 (1.8V and 3V)  
I2C x1  
GPIO x5  
ADC x1  
PCM x1

## Consumption

Power off: 7uA  
PSM: 9uA  
Sleep: 1mA  
Idle: 11mA

## Certifications

RoHS/ REACH/CE\*/FCC\*

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Note: \* In Planning