

# SIM7000C

eMTC/NB-IoT/EDGE Module



## Product Description

The SIM7000C is Multi-Band LTE-FDD and Dual-Band GPRS/EDGE module solution in a SMT 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 SIM7000C is compatible with SIM900 and SIM800 series. AT commands of SIM7000C are mostly compatible with SIM800 series. This also 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.

Quad-Band  
LTE

FOTA

LCC

VoLTE

Compact  
Size

GNSS

TCP/IP

USB 2.0

SSL

## Key Benefits

- With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7000C can extend battery life to 10 years
- SIM7000C provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7000C mostly are compatible with SIM900 and SIM800 series.

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## General features

Quad-Band FDD-LTE B1/B3/B5/B8  
GPRS/EDGE 900/1800 MHz  
Output power  
- GSM900: 2W  
- DCS1800: 1W  
Control Via AT Commands  
Supply voltage range: 3.0V~ 4.3V,Typ:3.8V  
Operation temperature: -40°C to +85°C  
Dimension: 24 x 24 x 2.6mm  
Weight: 3.0g  
GNSS (GPS, GLONASS and BeiDou/Compass, Galileo, QZSS)

## 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  
USB Driver for Windows CE/Mobile  
USB Driver for Linux/Android  
Firmware update via USB  
TCP/IP  
UDP  
PPP  
SMS  
EMAIL  
FTP/HTTP/SSL  
  
VoLTE \*  
FOTA \*

## 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	

## Consumption

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

## Certifications

RoHS / REACH / TA (doing) / CCC \* / CTA \*

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Note: \* In Planning