

# SIM7000A

eMTC( CAT-M1) Module



Quad-Band

FOTA

LCC

VoLTE

Compact  
Size

GNSS

TCP/IP

USB 2.0

SSL

## Product Description

The SIM7000A is Multi-Band LTE-FDD module solution in a SMT type which supports LTE CAT-M1(eMTC) 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 SIM7000A is compatible with SIM900 and SIM800F. AT commands of SIM7000A are mostly compatible with SIM800F. This also minimize 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), SIM7000A can extend battery life to 10 years
- SIM7000A provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7000A mostly are compatible with SIM900 and SIM800F.

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## General Features

Quad-Band FDD-LTE B2/B4/B12/B13  
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 and BeiDou)

## Data

### LTE CAT-M1(eMTC)

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

## Specifications for SMS

Point to point MO and MT  
Text and PDU mode

## Consumption

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

## 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

## Certifications

RoHS / REACH / FCC / Verizon / PTCRB / GCF (doing) /  
AT&T (doing)  
)

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Note: \* In Planning