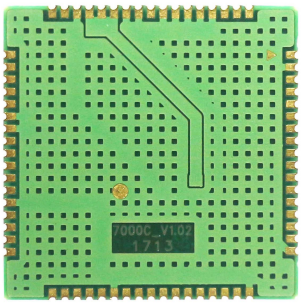
SIM7000E

eMTC/NB-IoT/EDGE Module





Quad-Band LTE

FOTA

LCC

VoLTE

Compact Size

GNSS

TCP/IP

USB 2.0

SSL

Product Description

The SIM7000E is Quad-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 SIM7000E is compatible with SIM900 and SIM800F. AT commands of SIM7000E 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), SIM7000E can extend battery life to 10 years
- SIM7000E provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7000E mostly are compatible with SIM900 and SIM800F.

Smart machine Smart decision

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General Features

Quad-Band FDD-LTE B3/B8/B20/B28
GPRS/EDGE 900/1800Mhz
Output power
- GSM900: 2W
- DCS1800: 1W

Control Via AT Commands
Supply voltage range: 3.0V~ 4.3V, Typ: 3.8V
Operation temperature: -40℃ to +85℃
Dimensions: 24 X 24 X 2.6mm
Weight: 3.0g
GNSS (GPS,GLONASS,BeiDou and Galileo)

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 *

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

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

Specifications for SMS

Point to point MO and MT
Text and PDU mode

Consumption

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

Certifications

CE / RoHS / REACH

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Note: * In Planning