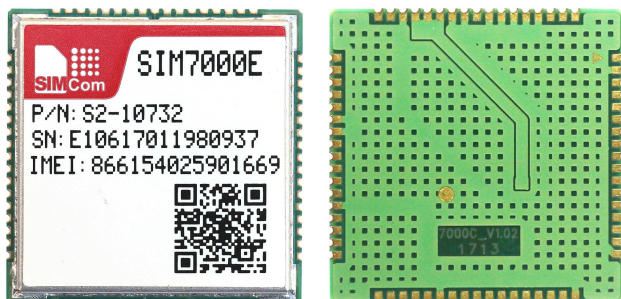


SIM7000E

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

Tel:86-21-32523300

Fax:86-21-32523301

simcom@sim.com

www.simcomm2m.com

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°C to +85°C

Dimensions: 24 X 24 X 2.6mm

Weight: 3.0g

GNSS (GPS, GLONASS, BeiDou and Galileo)

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

CE / RoHS / REACH

Smart machine Smart decision

Tel:86-21-32523424

Fax:86-21-32523020

simcom@sim.com

www.simcomm2m.com

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