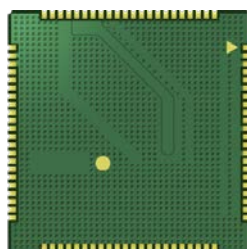


SIM7000E

eMTC/NB-IoT/EDGE Module



Tri-Band
LTE

FOTA

LCC

VoLTE

Compact
Size

GNSS

TCP/IP

USB 2.0

SSL

Product Description

The SIM7000E is Tri-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 maximizes 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

Tri-Band FDD-LTE B3/B8/B20
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 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
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

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Tel:86-21-32523424

Fax:86-21-32523020

simcom@sim.com

www.simcomm2m.com

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Note: * In Planning

The Netherlands



Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
F: +31 (0)53 573 33 30
E: nl@texim-europe.com

Belgium



Zuiderlaan 14 bus 10
B-1731 Zellik

T: +32 (0)2 462 01 00
F: +32 (0)2 462 01 25
E: belgium@texim-europe.com

UK & Ireland



St. Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
F: +44 (0)845 299 22 26
E: uk@texim-europe.com

Germany North



Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
F: +49 (0)4106 627 07-20
E: germany@texim-europe.com

Germany South



Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
F: +49 (0)89 436 086-19
E: germany@texim-europe.com

Austria



Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
F: +43 (0)662 216 026-66
E: austria@texim-europe.com

Nordic region



Sdr. Jagtvej 12
DK-2970 Hørsholm

T: +45 88 20 26 30
F: +45 88 20 26 39
E: nordic@texim-europe.com

General information



info@texim-europe.com
www.texim-europe.com