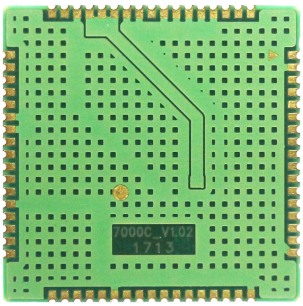
SIM7000E-N

NB-IoT Module



Quad-Band LTE

NB-IoT

LCC

SMS

Compact Size

UDP

TCP/IP

USB 2.0

FOTA

Product Description

The SIM7000E-N is Quad-Band LTE-FDD NB-IoT module solution in a SMT type which supports LTE CAT NB-IoT up to 66 kbps 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-N is compatible with SIM900 and SIM800F. AT commands of SIM7000E-N 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-N can extend battery life to 10 years
- SIM7000E-N provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7000E -N mostly are compatible with SIM900 and SIM800F.

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General Features

Quad-Band FDD-LTE B3/B8/B20/B28
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

Other Features

USB Driver for Microsoft Windows XP/Vista/7/8
USB Driver for Windows CE/Mobile
USB Driver for Linux
Firmware update via USB
TCP/IP
UDP
PPP
SMS
FOTA *

Data

NB-IoT

- Uplink up to 66kbps, Downlink up to 34kbps

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

Specifications for SMS

Point to point MO and MT
Text and PDU mode

Certifications

CE* / RoHS / REACH

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Note: * In Planning