SIM7000C

eMTC/NB-IoT/EDGE Module

SIM7000C
P/N: S2-10730
SN: E10617011980934
IMEI: 866154025901636
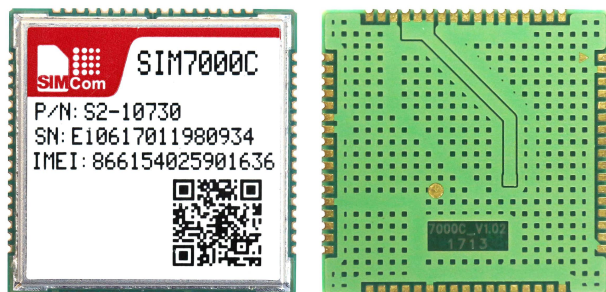
Quad-Band LTE

FOTA

LCC

VoLTE

Compact Size

GNSS

TCP/IP

USB 2.0

SSL

Product Description

The SIM7000C is Multi-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 SIM7000C is compatible with SIM900 and SIM800 series. AT commands of SIM7000C are mostly compatible with SIM800 series. This also 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), SIM7000C can extend battery life to 10 years

● SIM7000C provides deeper coverage enhancement compared to GSM

● The package and AT commands of SIM7000C mostly are compatible with SIM900 and SIM800 series.

Smart machine Smart decision

General features

Quad-Band FDD-LTE B1/B3/B5/B8
GPRS/EDGE 900/1800 MHz
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℃
Dimension: 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
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

 RoHS / REACH / TA /CCC * / CTA *

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Note: * In Planning