SIM7022

Cat NB2 Module

15.7mm

17.6mm
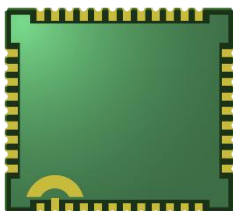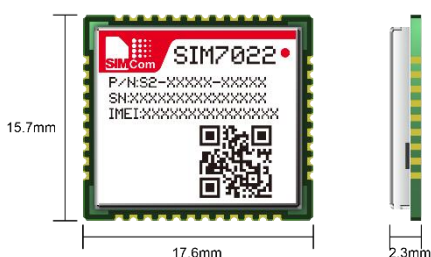
2.3mm

Multi-Band

NB-IoT

LCC

LWM2M/COAP

Compact Size

FOTA

TCP/UDP

PSM/eDRX

HTTP/SSL

Product Description

The SIM7022 is Multi-Band NB-IoT module solution in a SMT type .

It has strong extension capability with rich interfaces including UART, GPIO etc. The module provides much flexibility and ease of integration for customer's application.

The package of SIM7022 is compatible with SIM800C and SIM7020 .

It is designed for applications that need low power consumption, low 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, asset tracking, remote monitoring , E-health etc..

Key Benefits

● With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7022 can extend battery life to 10 years

● SIM7022 provides deeper coverage enhancement compared to GSM

● The package of SIM7022 mostly are compatible with SIM800C and SIM7020.

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General Features

LTE-FDD:
B1/B2/B3/B4/B5/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B66/B70/B85
Control Via AT Commands
Supply voltage range: 2.2V-4.3V
Operation temperature: -40℃ to +85℃
Dimensions: 17.6 X 15.7 X 2.3mm
Weight: 1.3g±0.2g

Data

Uplink: 159Kbps   Downlink:127Kbps

SMS

Text and PDU mode

Consumption

0.8 uA @ PSM
0.11 mA @ Idle（DRX=2.56s）
0.018 mA @ Idle （eDRX=163.84s；PTW=25.6s）

Other Features

Firmware update via UART
TCP/UDP/HTTP(s)/TLS/SSL/DTLS*/DNS/NTP*/PING*/PPP*/LwM2M/COAP/MQTT(s)/FOTA

Interfaces

UART
USIM card (1.8V/3V)
Netlight
RI
Reset
ADC
GPIO
WARKUP

Certifications

RoHS/REACH/RCM/CE/FCC/GCF/UKCA/NCC
Telefonica/ Deutsche Telekom/TIM/Vodafone/Orange
PTCRB/T-mobile*/Telstra*/ATEX*/AT&T*/Verizon*

* means under developing/on-going/planning

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