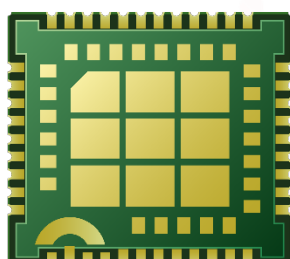


SIM7020G

NB-IoT(Cat-NB2) Module



Product Description

The SIM7020G is Global-Band NB-IoT (Cat-NB2) module solution in a SMT type .

It has strong extension capability with rich interfaces including UART, SPI,I2C, GPIO etc. The module provides much flexibility and ease of integration for customer's application.

The package (LCC part) of SIM7020G is compatible with SIM800C (2G module with LCC package). This also maximizes the investments of customers, and enables a short time-to-market.

It is designed for applications that need low latency, 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..

Global-Band

Cat-NB2

LCC+LGA

LWM2M/CO
AP

Compact
Size

FOTA

TCP/UDP

PSM/eDRX

HTTP/SSL

Key Benefits

- With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7020G can extend battery life to 10 years
- SIM7020G provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7020G mostly are compatible with SIM800C.

Smart machine Smart decision

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General Features

Support Bands:

B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/

B20/B25/B26/B28/B66/B70/B71/B85

Control Via AT Commands

Supply voltage range: 2.1V-3.6V

Operation temperature: -40℃ to +85℃

Dimensions: 17.6 X 15.7 X 2.3mm

Weight: 1.3g ± 0.2g

Data

Uplink: 150Kbps Downlink: 126Kbps

SMS

Text and PDU mode

Consumption

PSM: 3.4 uA

sleep: 0.4mA

Idle: 5.6mA

eDRX: 30uA (eDRX=655.36s)

Other Features

TCP/UDP

HTTP/HTTPS/TLS/DTLS/DNS/NTP/PING

LWM2M/COAP/MQTT/MQTTS

Ayla Cloud*/Ali Cloud

Firmware update via UART

FOTA

EAT*

Interfaces

UART

SIM card (1.8V/3V)

Embedded SIM IC (Optional)

SPI

I2C

GPIO

ADC

Netlight

PSM_EINT

Reset

Powerkey

Certifications(plan)

CE* / RCM* / FCC / IC* / GCF / PTCRB

T-mobile*

Telstra*

Vodafone*

RoHS / REACH

* In development

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