

# SIM7020

NB-IoT Module



Multi-Band

NB-IoT

LCC

LWM2M/CO  
AP

Compact  
Size

FOTA

TCP/UDP

PSM/eDRX

HTTP/SSL

## Product Description

The SIM7020 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 SIM7020 is compatible with SIM800C. This also minimizes 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..

## Key Benefits

- With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7020 can extend battery life to 10 years
- SIM7020 provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7020 mostly are compatible with SIM800C.

**Smart machine Smart decision**

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## General Features

SIM7020C: B1/B3/B5/B8

SIM7020E: B1/B3/B5/B8/B20/B28

Control Via AT Commands

Supply voltage range: 2.1V-3.6V

Operation temperature: -40°C to +85°C

Dimensions: 17.6 X 15.7 X 2.3mm

Weight: 1.3g  $\pm$  0.2g

## Data

Uplink: 62.5Kbps    Downlink: 26.15Kbps

## SMS

Text and PDU mode

## Consumption

PSM: 5  $\mu$ A

## Other Features

Firmware update via UART

TCP/UDP

LWM2M/COAP\*

MQTT

FTP/HTTP/HTTPS\*/SSL\*/DTLS\*

FOTA \*

PSM/eDRX

## Interfaces

UART

SIM card (1.8V/3V)

GPIO

ADC

Netlight

PSM\_EINT

Reset

Powerkey

## Certifications(plan)

CCC / TA / CTA (SIM7020C)

CE/GCF (SIM7020E)

RoHS / REACH

\* In development

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