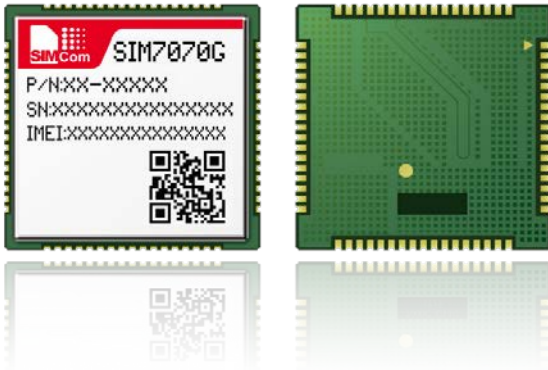


# SIM7070G

CAT-M&NB-IoT Module



Global-Band

CAT-NB2

CAT-M1

GNSS

LWM2M/CO  
AP/MQTT

LCC

TCP/UDP

HTTP/SSL

FOTA

## Product Description

The SIM7070G is Multi-Band CAT-M, NB-IoT and GPRS module solution in a SMT type .

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

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), SIM7070G can extend battery life to 10 years.
- CAT-M, NB-IoT , GPRS triple mode
- The package of SIM7070G is compatible with SIM7000/SIM800F/SIM900

Smart machine Smart decision

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## General Features

Support Bands:

CAT-M:

B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B71/B85

CAT-NB:

B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B66/B71/B85

GSM/GPRS:

850/900/1800/1900MHz

Control Via AT Commands

Supply voltage range: 3.0V-4.6V

Operation temperature: -40°C to +85°C

Dimensions: 24 X 24 X 2.3 mm

Weight: 2.9±0.2g

## GNSS

GPS, Beidou, GLONASS, Galileo

## Data

**Cat-M:**

- Uplink: up to 1119Kbps Downlink: up to 589Kbps

**NB-IoT:**

- Uplink: up to 150Kbps Downlink: up to 136Kbps

**EDGE:**

- Uplink up to 236.8Kbps, Downlink up to 236.8Kbps

**GPRS:**

- Uplink up to 85.6Kbps, Downlink up to 85.6Kbps

## Consumption

PSM: TBD

Sleep: TBD

Idle: TBD

eDRX: TBD

## Other Features

TCP/UDP

HTTP/HTTPS/TLS/DTLS/PING/LWM2M/COAP/MQTT

Ayla Cloud

Firmware update via USB

FOTA

EAT

## Interfaces

UART

SIM card

PCM/I2S

SPI

I2C

GPIO

ADC

USB

Embedded SIM (optional)

## Certifications(plan)

FCC/IC/ANATEL

PTCRB

AT&T/TMOBILE/VERIZON

RoHS/REACH

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