

SIM7070G

CAT-M&NB-IoT Module



Global-Band

NB-IoT
R14

CAT-M
R14

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 Saving 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/NB-IoT:
B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B39/B66/B71/B85
GSM/GPRS:
850/900/1800/1900MHz
GNSS integrated
Control Via AT Commands
Supply voltage range: 3.0V-4.6V(TBD)
Operation temperature: -40°C to +85°C
Dimensions: 24 X 24 X 2.3(THICKNESS TBD) mm
Weight: TBD

Data

Cat-M: Uplink: 1119Kbps Downlink:589Kbps
NB-IoT: Uplink: 150Kbps Downlink:136Kbps
GPRS: Compatible with MCS 12

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)

CE / FCC / GCF/ PTCRB
RoHS / REACH

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