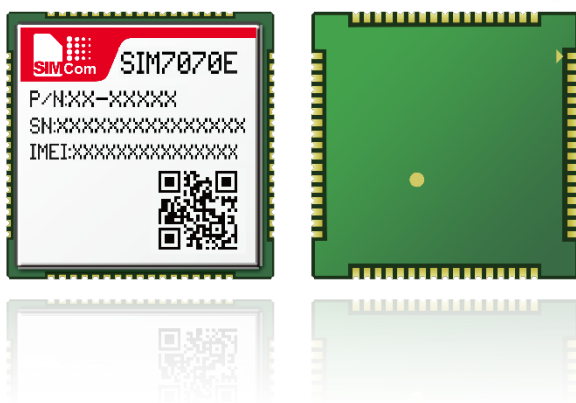


SIM7070E

CAT-M&NB-IoT Module



LTE 450MHz

CAT-NB2

CAT-M1

GNSS

LWM2M/CO
AP/MQTT

LCC

TCP/UDP

HTTP/SSL

FOTA

Product Description

The SIM7070E 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), SIM7070E can extend battery life to 10 years.
- CAT-M, NB-IoT , GPRS triple mode
- The package of SIM7070E 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/B31/B66/B72/B85

CAT-NB:

B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28
/B31/B66/B85

LTE RF Power Class:

B31&B72 Power Class2,

Other Bands Power Class5 (Typ.21dbm)

GSM/GPRS:

850/900/1800/1900MHz

Control Via AT Commands

Supply voltage range: 3.2V-4.2V

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)

CE/RCM

RoHS/REACH

Smart machine Smart decision

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