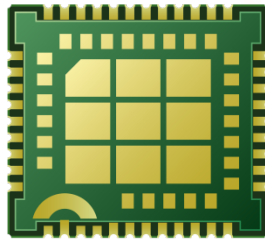


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SIM7080G

CAT-M&NB-IoT Module



Product Description

The SIM7080G is Multi-Band CAT-M and NB-IoT 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..

Global-Band

NB-IoT
R14

CAT-M

GNSS

LWM2M/CO
AP/MQTT

LCC+LGA

TCP/UDP

HTTP/SSL

FOTA

Key Benefits

- With Power Saving Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7080G can extend battery life to 10 years.
- CAT-M, NB-IoT dual mode
- The package of SIM7080G is compatible with SIM868

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/B85

CAT-NB:

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

LTE RF Power Class: 5

Control Via AT Commands

Supply voltage range: 2.7V-4.8V

Operation temperature: -40°C to +85°C

Dimensions: 17.6 X 15.7 X 2.4 mm

Weight: 1.4g ± 0.2g

GNSS

GPS, Beidou, GLONASS, Galileo

Data

Cat-M: Uplink: 1119Kbps Downlink:589Kbps

NB-IoT: Uplink: 150Kbps Downlink:136Kbps

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/ACMA/FCC/IC/JATE/TELEC/ANATEL

GCF/PTCRB

AT&T/TMOBILE/VERIZON/Vodafone/GMA/DoCoMo

/SoftBand

RoHS/REACH

Smart machine Smart decision

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