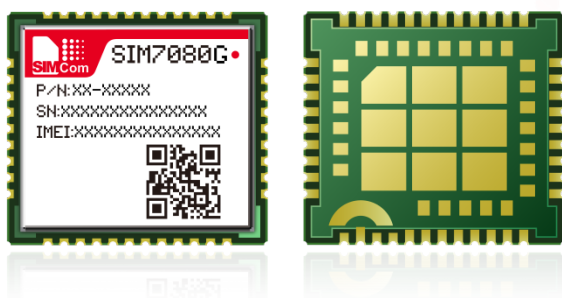# SIM7080G

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/COAP/MQTT   LCC+LGA

TCP/UDP   HTTP/SSL   FOTA

Key Benefits

- With Power Save 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

Tel:86-21-31575100
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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
Control Via AT Commands
Supply voltage range: 2.7V-4.8V
Operation temperature: -40℃ to +85℃
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
RoHS/REACH

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