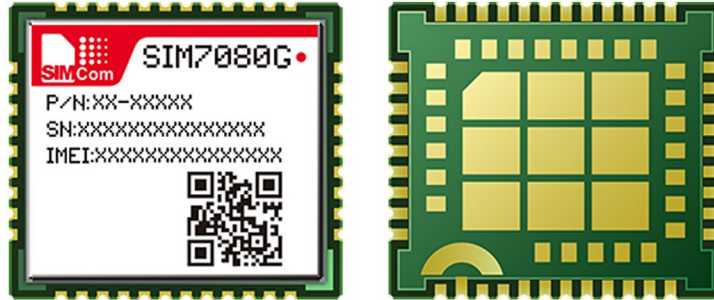


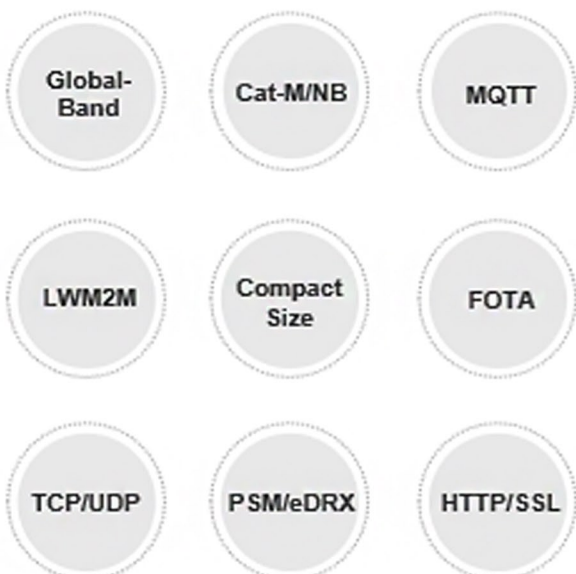
SIM7080G LPWA Module



The SIM7080 series is the LPWA module which supports wireless communication modes of CatM/-Cat-NB. This series adopts LCC and LGA form factor and has a compact size of 17.6mm*15.7mm which makes it ideal for compact products design.

The SIM7080 series has powerful expansibility with abundant interfaces including UART, GPIO, PCM, SPI, I2C etc. The SIM7080 series 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..E-health etc..

Product Overview



Key Benefits

- With Power Saving Mode(PSM) and Extended Dis-continuous Reception(eDRX), the SIM7080 series can extend battery life up to 10 years
- The SIM7080 series provides deeper coverage enhancement compared to GSM
- The form factor and AT commands of SIM7080 series are compatible with SIM7020/SIM868



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Product Specifications

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 (Typ. 21dbm)

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

Date

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

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

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)

Consumption

PSM: 3.2uA

Sleep: 0.6mA @PTW=40.96s eDRX=81.92s

Idle: 10mA