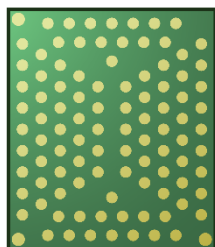


# SIM7090G SPEC Draft

CAT-M&NB-IoT Module



Global-Band

NB-IoT  
R14

CAT-M

GNSS

LWM2M/CO  
AP/MQTT

LGA

TCP/UDP

HTTP/SSL

FOTA

## Product Description

The SIM7090G 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 asset tracking, wearable, metering, etc..

## Key Benefits

- With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7090G can extend battery life to 10 years.
- CAT-M, NB-IoT dual mode
- Ultra compact size for wearable, tracker application

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

Control Via AT Commands

Supply voltage range: 2.7V-4.8V\*

Operation temperature: -40°C to +85°C

Dimensions: 14.8 X 12.8 X 2.0 mm

Weight: TBD

## GNSS

GPS, Beidou, GLONASS, Galileo

## Data

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

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

## Power 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

## Certifications(plan)

CE/ACMA/FCC/IC

RoHS/REACH

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