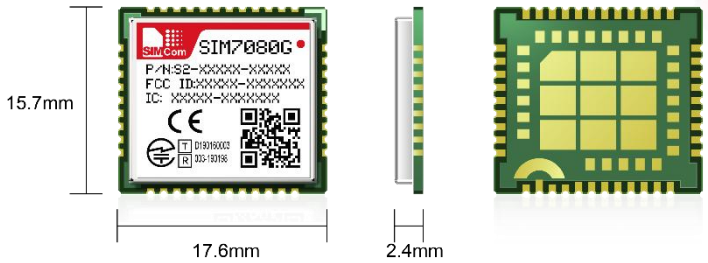
V: 2024.H2

SIM7080G-MO

SIMCom LPWA Module



Global-Band

Cat-M/NB

MQTT

LWM2M

Compact Size

FOTA

TCP/UDP

PSM/eDRX

HTTP/SSL

Product Description

The SIM7080G-MO is the LPWA module which supports wireless communication modes of Cat-M Only.

The SIM7080G-MO 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 SIM7080G-MO has powerful expansibility with abundant interfaces including UART, GPIO, PCM, SPI, I2C etc.

The SIM7080G-MO is designed for applications that need low power consumption, 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), the SIM7080G-MO can extend battery life up to 10 years
- The SIM7080G-MO provides deeper coverage enhancement compared to GSM
- The form factor and AT commands of SIM7080G-MO are compatible with SIM7020/SIM868

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Product		SIM7080G-MO
Form Factor		LCC+LGA, 77PIN
Dimensions(mm)		17.6*15.7*2.3
Frequency Bands	Cat-M	B3/B20
	Cat-NB	
RF Power Class		Class 5 (Typ. 21dbm)
GNSS		o
Temperature		-40℃ ~ +85℃
Electrical Features		
Supply Voltage Range(V)		2.7~ 4.8
Power Consumption	@PSM(uA)	3.2
	@Sleep(mA)	0.6
	@Idle(mA)	10
Data Transfer		
Cat-M (Kbps)		589(DL)/1119(UL)
Cat-NB (Kbps)		127(DL)/158.5(UL)
Software Features		
Protocol		TCP/UDP/HTTP/HTTPS/FTP/TLS/DTLS/PING/ LWM2M/COAP/MQTT
FOTA		●
Embedded AT		●
Firmware Upgrade		USB/FOTA
Interfaces		
SIM Card		1.8V
UART		●
USB		●
PCM/I2S		●
ADC		●
SPI		●
I2C		●
Embedded SIM		o
Certification		
Regulatory		RoHS/REACH/NCC/JATE/TELEC/RCM/CE/GCF/FCC /PTCRB /IC/Anatel*
Carrier		DoCoMo*/KDDI/Softbank/Orange*/Deutsche Telekom /Telefonica* /AT&T /VERIZON* /Tmobile/US Celluar

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