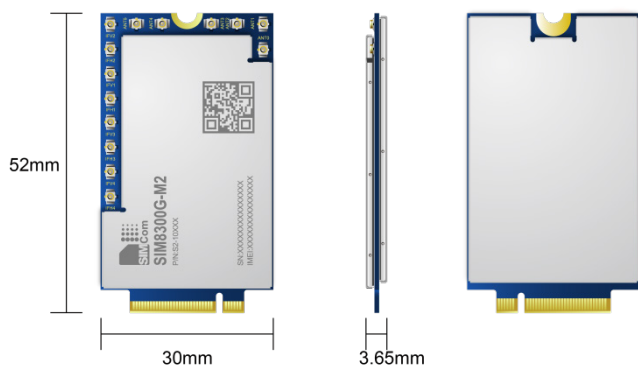


V: 2020.03

SIM8300G-M2

SIMCom 5G Sub-6G&mmWave Module



mmWave

NSA/SA

M.2

VoLTE

Multi-Band

GNSS

TCP/IP

USB 3.1

SSL

Product Description

The SIM8300G-M2 is the Multi-Band 5G NR/LTE-FDD/LTE-TDD/HSPA+ module which supports R15 5G NSA/SA up to 7Gbps data transfer.

It has strong extension capability with abundant interfaces including PCIe, USB3.1, GPIO etc. The module provides much flexibility and ease of integration for customer's applications.

SIM8300G-M2 adopts M.2 form factor, TYPE 3052-D3-B. AT commands of SIM8300G-M2 are compatible with SIM7912G/SIM8200-M2 series modules. This also minimizes the investments of customers and enables a short time-to-market.

It is designed for applications that need high 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 many applications.

Key Benefits

- ◆ Standard M.2 interface
- ◆ High throughput data communication
- ◆ AT commands of SIM8300G-M2 are compatible with SIM7912G/SIM8200-M2 series modules

General Features

Frequency Bands	5G mmWave n257,n258,n260,n261
	5G Sub-6G n1,n2,n3,n5,n7,n8,n12,n20,n25,n28,n40,n41, n66,n71,n77,n78,n79
	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/ B19/B20/B25/B26/B28/B29/B30/B66/B71
	LTE-TDD B34/B38/B39/B40/B41/B42/B46/B48
	WCDMA B1/B2/B3/B4/B5/B8
GNSS	GPS/GLONASS/BeiDou/Galileo/QZSS
Supply Voltage	3.135V~ 4.4V
Operation temperature	-30℃ ~ +70℃
Dimensions	50.0*30.0*3.65mm
Control Via AT Commands	

Data Transfer

mmWave	Uplink up to 3Gbps
	Downlink up to 7Gbps
Sub-6G	Uplink up to 1Gbps
	Downlink up to 4Gbps
LTE Cat 20+	Uplink up to 200Mbps
	Downlink up to 2Gbps
HSPA+	Uplink up to 5.76Mbps
	Downlink up to 42Mbps

Note

*: on going

Other Features

USB Driver for Microsoft Windows Win7/Win8/Win10
USB Driver for Linux /Android
RIL supporting for Android 6/7/8/9
RNDIS /NDIS/PPP/MBIM to Win8
Firmware update via USB
TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTT/DNS/SSL3.0/TLS1.0/TLS1.2
DTMF(Sending and Receiving)
VoLTE/CSFB/VoNR*
FOTA

Interfaces

USB2.0
USB3.1
UART
USIM(1.8V/2.95V)
PCM
I2C
GPIO
PCIe Gen3
Antenna * 14

Certifications

RoHS*/REACH*/CE*/FCC*/GCF*

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