SIM8380G-M2

SIMCom 5G Sub-6G&mmWave Module

mmWave

NSA/SA

M2

VoLTE

Compact Size

GNSS

TCP/IP

USB 3.1

SSL
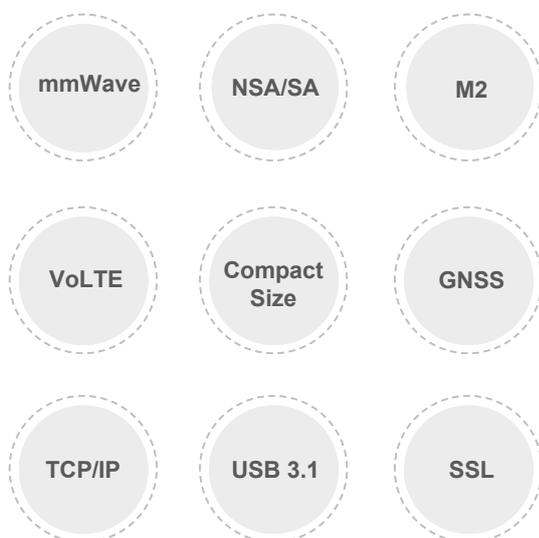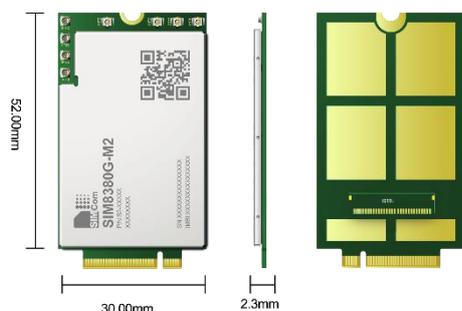
Product Description

The SIM8380G-M2 is the Multi-Band 5G NR/LTE-FDD/LTE-TDD/HSPA+ module which supports R16 5G NSA/SA.

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.

The SIM8380G-M2 adopts M2 form factor. AT commands of SIM8380G-M2 are compatible with SIM8300 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 the SIM8380G-M2 are compatible with SIM8300G/SIM8200X-M2 series modules

Product	SIM8380G-M2	
Form Factor		M.2
Dimensions(mm)		52.0*30.0*2.3
Frequency Bands	5G Sub-6G	n1/n2/n3/n5/n7/n8/n12/n13/n14/n20/n25/n26/n28/n38/n40/n41/n48/n66/n71/n77/n78/n79
	5G mmWave	n257/n258/n260/n261
	LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71/B75/B76
	LTE-TDD	B34/B38/B39/B40/B41/B42/B43/B46/B48
	WCDMA	B1/B2/B3/B4/B5/B8
GNSS		GPS/GLONASS/Beidou/Galileo/QZSS
Temperature		-30℃ ~ +70℃

Electrical Features	
Supply Voltage(V)	3.135 ~ 4.4

Data Transfer	
mmWave	7Gbps(DL)/3Gbps(UL)
Sub-6G	4Gbps(DL)/1Gbps(UL)
LTE	2Gbps(DL)/200Mbps(UL)
HSPA+	42Mbps (DL)/5.76Mbps(UL)

Software Features	
Protocol	TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTTS/DNS/SSL3.0
TLS	●
File System	●
FOTA	●
Android RIL	Android 6/7/8/9
USB Driver	Microsoft Windows Win7/Win8/Win10/Linux/Android
MBIM	Win8/Win10
NDIS	Linux/Win7/Win8/Win10
Firmware Upgrade	USB

Interfaces	
SIM Card	1.8V/2.95V
USB	●
PCM	●
I2C	●
Diversity Receiver	●

Certifications	
Regulatory	CE(RED)*/FCC*/RoHS*/REACH*

●: support   o: optional   * :means under developing/on-going/planning