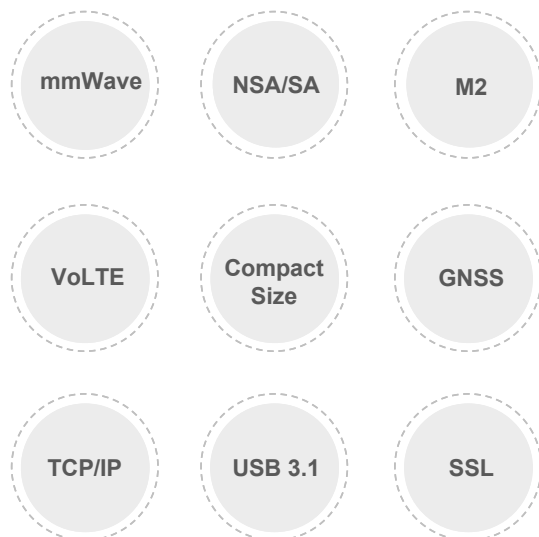
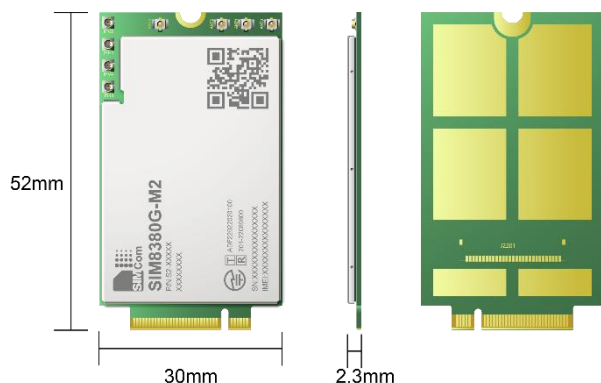


V: 2023.1

# SIM8380G-M2

## SIMCom 5G Sub-6G&mmWave Module



### 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 SIM83xx series and SIM82xx 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 SA     | n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n71/n75/n76/n77/n78/n79 |
|                     | 5G NSA    | n1/n2/n3/n5/n7/n8/n20/n25/n28/n38/n41/n48/n66/n71/n75/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                      |
|                     | LTE-TDD   | B34/B38/B39/B40/B41/B42/B43/B46/B48                                                                   |
|                     | WCDMA     | B1/B2/B4/B5/B8/B19                                                                                    |
| GNSS                |           | GPS/GLONASS/Beidou/Galileo/QZSS                                                                       |
| Temperature         |           | -30°C ~ +70°C                                                                                         |
| Electrical Features |           |                                                                                                       |
| Supply Voltage(V)   |           | 3.135 ~ 4.4                                                                                           |
| Data Transfer       |           |                                                                                                       |
| mmWave              |           | 8.76Gbps(DL)/2.69Gbps(UL)                                                                             |
| SA                  |           | 6.2Gbps(DL)/0.9Gbps(UL)                                                                               |
| NSA                 |           | 4.92Gbps(DL)/660Mbps(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/MQTT/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*/TELEC/JATE                                                                 |

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