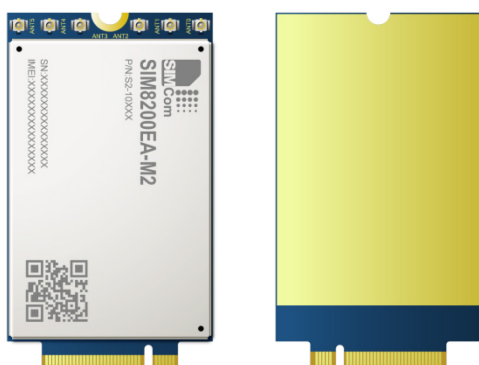


# SIM8200EA-M2

version:2020.01.20



Multi-Band

FOTA

M.2

VoLTE

Compact  
Size

GNSS

TCP/IP

USB 3.1

SSL

## Product Description

The SIM8200EA-M2 is Multi-Band 5G NR/LTE-FDD/LTE-TDD/HSPA+ module solution in a M.2 type which supports R15 5g NSA/SA up to 4.0 Gbps data transfer.

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

The package of SIM8200EA-M2 is M.2;TYPE 3052-S3-B. AT commands of SIM8200EA-M2 are mostly compatible with SIM7912G/SIM7920G Series modules. This also minimize 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.
- The AT commands of SIM8200EA-M2 are mostly compatible with SIM7912G/SIM7920G Series modules.

## General Features

- Supply voltage range: 3.3V ~ 4.3V, Typ: 3.8V
- Control Via AT Commands
- Operation temperature: -30°C ~ +70°C
- Dimensions: 30.0\*52.0\*2.3mm
- Weight: 6.3g
- Sub-6G/LTE-FDD/LTE-TDD/WCDMA
- GNSS:GPS/GLONASS/BeiDou/Galileo/QZSS

## Data

- Sub-6G
  - Uplink up to 300Mbps
  - Downlink up to 4 Gbps
- LTE CAT20
  - Uplink up to 200Mbps
  - Downlink up to 2.4Gbps
- HSPA+
  - Uplink up to 5.76Mbps
  - Downlink up to 42.0Mbps

## Approvals

- RoHS Compliant
- CCC\*
- CTA\*
- SRRC\*
- REACH\*
- CE\*
- FCC\*
- GCF\*

## Frequency

5G NR	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/B32/B66/B71
TDD-LTE	B34/B38/B39/B40/B41/B42/B43/B48
WCDMA	B1/B2/B3/B4/B5/B8

\* Under Development

## Other Features

- USB Driver for Microsoft Windows Win7/Win8/Win10
- USB Driver for Linux /Android
- RIL supporting for Android 5.0/6.0/7.0/8.0
- RNDIS /NDIS/PPP/MBIM to Win8
- Firmware update via USB
- TCP/IP/IPV4/IPV6/Multi-PDP/FTPS /HTTPS/MQTT/DNS
- SSL3.0/TLS1.0/TLS1.2
- DTMF (Sending and Receiving)
- VoLTE/CSFB/VoNR\*
- FOTA/OTA
- AGPS/SUPL2.0

## Interfaces

- USB2.0 with High speed up to 480Mbps
- USB3.1 with SS Gen2
- UART
- (U)SIM card (1.8V /3.0V)
- Digital Audio through PCM
- I2C
- GPIOs
- PCIe Gen3
- Antenna x 6