

SIM8262A-M2 5G

Communication Module

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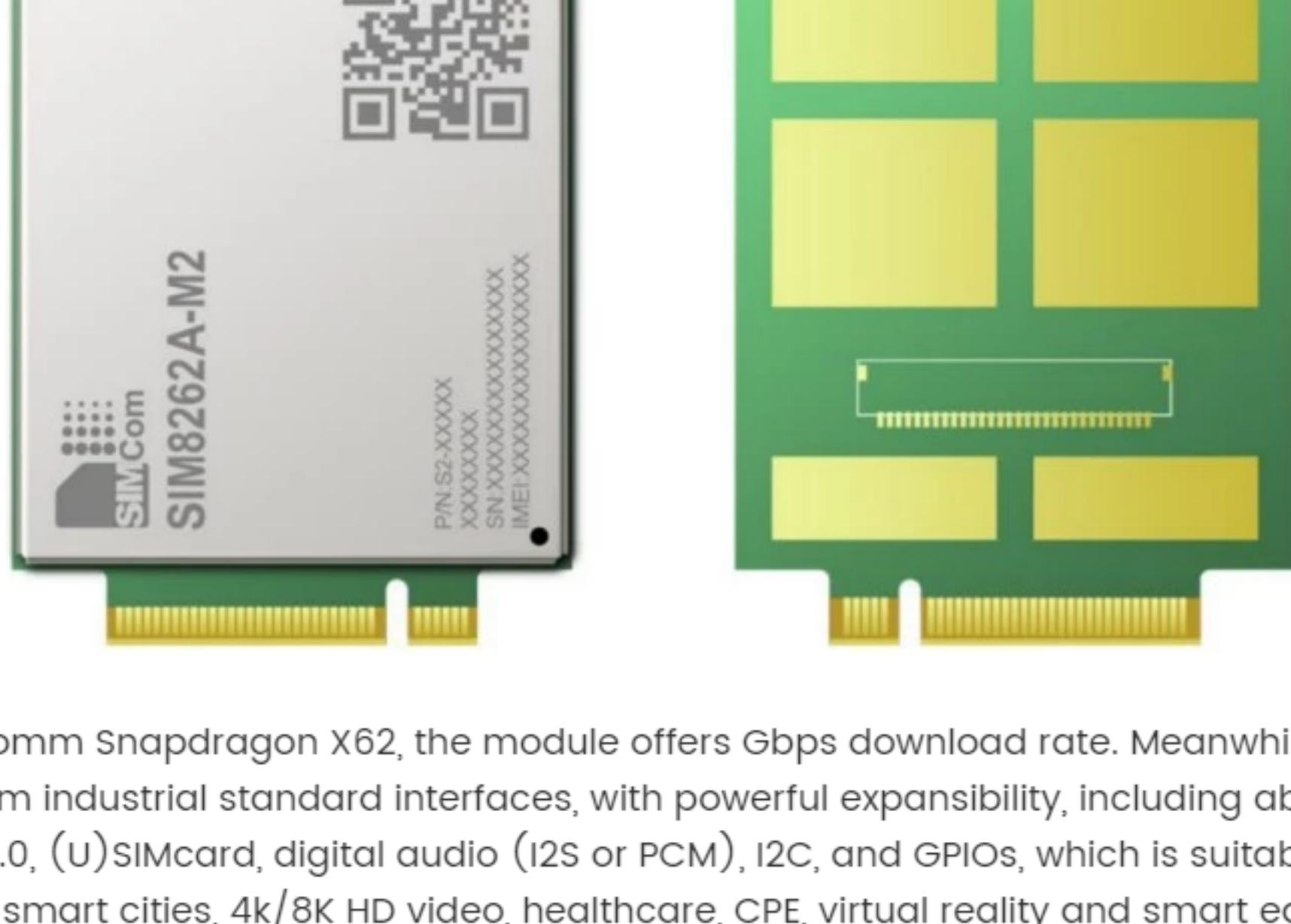
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Introduction

SIM8262A-M2 is a 5G wireless communication module that supports 5G NR (NSA/SA), LTE-FDD, LTE-TDD, and WCDMA, and can meet the 3GPP R16NR specification. The module supports maximum 3.0Gbps downlink rate. It has optional GNSS system including dual-bands GPS, GLONASS, BeiDou, Galileo, QZSS.

A photograph of the SIM8262A-M2 5G communication module. It is a rectangular module with a silver-colored metal casing. The top left corner features a gold-plated M.2 B-key connector. The top right corner has a QR code and some identification numbers. The bottom edge shows a green PCB with various components and a gold-plated M.2 B-key connector.

The SIM8262A-M2 adopts M.2 form factor and M.2 B KEY interface, and consists of a SIM8262A module and a M.2 adapter board. It is easy for customers to integrate. The module integrates multiple satellite high accuracy positioning GNSS systems with multiple built-in network protocols, which is suitable for LTE, UMTS and GSM networks with global coverage and supports drivers for main operation systems (Windows, Linux and Android etc.) and software functions like FOTA, LBS, TLS, etc. Users can debug the module via AT commands of all kinds.

Two photographs of the SIM8262A-M2 module. The left image shows the module with its silver metal casing and gold-plated M.2 B-key connector. The right image shows the module with its green PCB and gold-plated M.2 B-key connector.

Equipped with Qualcomm Snapdragon X62, the module offers Gbps download rate. Meanwhile the SIM8262A-M2 integrates mainstream industrial standard interfaces, with powerful expansibility, including abundant interfaces such as USB3.1, PCIe4.0, (U)SIMcard, digital audio (I2S or PCM), I2C, and GPIOs, which is suitable for main IoT applications such as smart cities, 4k/8K HD video, healthcare, CPE, virtual reality and smart education, etc.

Four images illustrating the applications of the SIM8262A-M2 module. Top left: A power line tower at sunset. Top right: A highway with cars and wireless signals. Bottom left: A city skyline at night with wireless signals. Bottom right: A person playing a video game on a console.

Features

- Supports maximum 3.0Gbps downlink rate
- Suitable for LTE, UMTS, and GSM networks with global coverage
- Supports drivers for main operation systems (Windows, Linux, and Android, etc.)

Applications

- Applicable Regions: United States
- Smart cities
- 4k/8K HD video
- Healthcare
- CPE
- Virtual reality and smart education

Specification

Frequency Band

- 5G NR: n1/n2/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n30/n38/n41/n48/n66/n71/n77/n78/n79
- LTE-FDD: B1/B2/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B29/B30/B66/B71
- LTE-TDD: B38/B41/B42/B43//B46/B48
- WCDMA: B1/B2/B4/B5/B8
- GNSS: L1+L5

Data Transfer

- NSA: 3.0Gbps(DL)/660Mbps(UL)
- SA: 2.0Gbps(DL)/900Mbps(UL)
- LTE: 1Gbps(DL)/150Mbps(UL)
- HSPA+: 42Mbps(DL)/5.76Mbps(UL)

Software Features

- Processor: Arm Cortex-A7, up to 1.8 GHz
- RAM: 4Gb 16-bits LPDDR4X, frequency up to 2.13GHz
- ROM: 4Gb 8-bits NAND
- GNSS: GPS/GLONASS/BeiDou/Galileo/QZSS
- Operation System: Windows/Linux/Android
- Communication Protocol: TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS/HTTP/HTTPS/MQTTs/DNS/SSL3.0
- TLS: support
- FOTA: support
- File System: support
- SMS: support MT, MO, CB, Text, PDU
- Firmware Upgrade via USB

Hardware Specifications

- SIM card:
 - Support (U)SIM card:1.8v/3.0
 - Support (U)SIM1 and (U)SIM2 interfaces
 - Support dual (U)SIM single standby
- USB:
 - Support USB 3.1 Gen2 or USB 2.0
 - USB3.1: data rate up to 10Gbps
 - USB2.0: supports USB operations at high speed and full speed, downward compatible with USB1.0 and USB1.1
- PCIe:
 - One lane PCIe interface, support Gen 4.0 (Gen 1/2/3 downward compatible) □
 - High communication data rate which up to 16Gbps
- I2C: Meet I2C specification, version 5.0 Data rate up to 400Kbps
- UART: Configures as normal communication UART (ATcommand) by default
- Antenna: IPEX4 (Four antennas for 3G/4G/5G and GNSS)
- Power Supply: 3V-4.4V
- Form Factor: M.2 B KEY
- Dimension: 42.0*30.0*2.3mm/1.65*1.18*0.09"
- Operating Temperature: -40°C to +85°C

Documents

- [Linux Driver](#)
- [Drive](#)
- [Hardware Design](#)
- [AT CommandManual](#)

Shipping List

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