



MeiG Smart SRM825N Module

5G NR M.2 Packaging

MeiG Smart SRM825N series of M2M modules are designed to provide IoT and eMBB services by 5G NR Sub-6GHz networks. It intergrates Qualcomm Snapdragon X62 chipset, complies with 3GPP Release 16 standards and can support independent two types of network delopments: SA and NSA. SRM825N designed in M.2 form factor, the frequencies of SRM825N can cover the main operators' network of the world.

The maximum 2.4Gbps-DL and 900Mbps-UL data rates on 5G Sub6GHz networks can be supported. It also has backward compatibility with LTE-A and 3G networks to ensure working in remote areas.

A standard and rich set of interfaces(USB3.1/PCIe3.0/SPI/UARTs/GPIOs), protocols (TCP/FTP/HTTP) and multiple OS compatibility extend the applicability of the module to a wide range of M2M applications, wireless router, HD TV , AR/VR, T-Box, Monitor, and etc.

Key Technologies:

- Support 3GPP R16 standard
- Standard M.2 (NGFF) Data-Card form factor
- Support SA/NSA network type
- Sub-6GHz support 120MHz maximum bandwidth
- GNSS:Qualcomm® IZat™ Gen 9,including GPS/GLONASS/BeiDou/Galileo/QZSS
- High speed interfaces USB3.1、PCIe3.0
- Industrial Grade Design
- Support USB Audio Class(UAC) function, no need Codec chip.



Sub-6GHz



SA&NSA



USB3.1



PCIe 3.0



M.2



MIMO



-40°C-85°C



GNSS

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MEIG

Basic Features:

- Package: M.2 Package
- Size: 30.0×52.0×2.3mm
- Weight: About 12g

Module Speed:

- 5G NR Sub-6GHz:
 - MIMO 4*4, 256QAM
 - Downlink up to 2.4Gbps
 - Uplink up to 900Mbps
- LTE Cat. 19:
 - MIMO 4*4, 256QAM
 - Downlink up to 1.6Gbps
 - Uplink up to 200Mbps

Drivers & Tools:

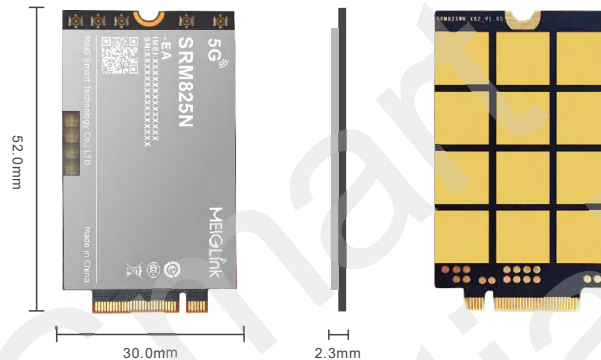
- Drivers: Windows 7, Windows 8, Windows 8.1, Windows 10, Linux, Android
- Tools: One Click update tool, Gobinet Dial Tool
- FOTA upgrade

Module Interfaces:

- USB 2.0/USB 3.0/USB 3.1 with SS Gen2
- PCIe Gen3 / Gen4
- eSIM
- UART
- SIM Card interface(1.8 / 3.0V)
- Antenna interface: main/diversity /MIMO/ GNSS antenna, with a total of 5 antennas
- Power On/Off, Reset
- 1x PCM
- GPIOs

Certifications:

- CCC*/SRRC*/CTA*/CE*/GCF*



Transmission Power:

- Class 2 for B41/N41/N77/N78/N79
- Class 3 for other bands

Protocols:

- RNDIS/NDIS/ECM/TCP/UDP

Temperature and Humidity:

- Routine operating temperature: -30°C to 75°C
- Extended operating temperature: -40°C to 85°C
- Storage temperature: -45°C to 90°C
- Humidity: 5%~95%

SRM825N-EA Band Information:

5G SA:
N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N71/N77/N78/N79

5G NSA:
N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N71/N77/N78/N79

LTE:
FDD: B1/B3/B5/B7/B8/B18/B19/B20/B28/B32
TDD: B34/B38/B39/B40/B41/B42

WCDMA:
B1/B5/B8

