



MeiG Smart SRM825WN Module

5G NR M.2 Packaging

MeiG Smart SRM825WN series of M2M modules are designed to provide IoT and eMBB services by 5G NR Sub-6GHz and mmWave networks. It implements Qualcomm Snapdragon X65 chipset which supports SA and NSA network types, and comply with 3GPP Release 16 standard. The frequencies of SRM825WN-NA cover the main operators network of the North America and Latin America region, it has backward compatibility with LTE-A and 3G networks to ensure working in remote areas.

A 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
- Compatibility of 5G NR/LTE-FDD/LTE-TDD/WCDMA Networks
- Sub-6GHz support 240MHz maximum bandwidth, mmWave support 800MHz 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 10g

Module Speed:

- 5G NR mmWave:
 - MIMO 2*2, 64QAM
 - Downlink up to 10Gbps
 - Uplink up to 3.3Gbps
- 5G NR Sub-6GHz:
 - MIMO 4*4, 256QAM
 - Downlink up to 4.9Gbps
 - Uplink up to 900Mbps
- LTE Cat. 19:
 - MIMO 4*4, 256QAM
 - Downlink up to 1.6Gbps
 - Uplink up to 200Mbps

Drivers & Tools:

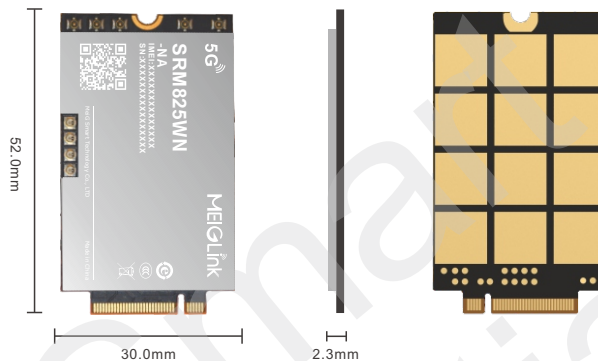
- Drivers: Windows 7, Windows 8, Windows 8.1, Windows 10, Linux, Android
- Tools: One Click update tool, Gobinet Dial Tool
- FOTA upgrade

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
- mmWave RF connector x4
- Power On/Off, Reset
- 1x PCM
- GPIOs

Certifications:

- FCC*/PTCRB*/GCF*



Transmission Power:

- Class 2 for B41/N41/N77/N78
- 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%

SRM825WN-NA Band Information:

5G NR:

FR1: N2/N5/N7/N12/N13/N25/N38/N41/N48/N66/N71/N77/N78
FR2: N257/N258/N260/N261

LTE:

FDD: B2/B4/B5/B7/B12/B13/B17/B25/B26/B66/B71
TDD: B38/B41/B42/B43/B48

WCDMA:

B2/B4/B5

