



MeiG Smart SRM815N Module

5G NR Sub-6GHz LGA Packaging

MeiG Smart SRM815N 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. SRM815N designed in LGA form factor, the frequencies of SRM815N 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 rich set of interfaces (USB3.1/PCIe3.0/SDIO/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, AR/VR, T-Box, Monitor, and etc.

Key Technologies:

- Support 3GPP R16 standard
- Compatibility of 5G NR/LTE-FDD/LTE-TDD/WCDMA Networks
- Sub-6GHz support 120MHz maximum bandwidth
- High speed interfaces USB3.1/PCIe 3.0
- Higher RF performance, suitable for built-in antenna products
- Industrial Grade Design
- Support USB Audio Class(UAC) function, do not need codec chip



5G NR



SA&NSA



LGA



USB



ADC



MIMO



VoNR/VoLTE



GNSS

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MEIG

Basic Features:

- Package: LGA Package
- Size: 44.0×43.0×2.75mm
- 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:

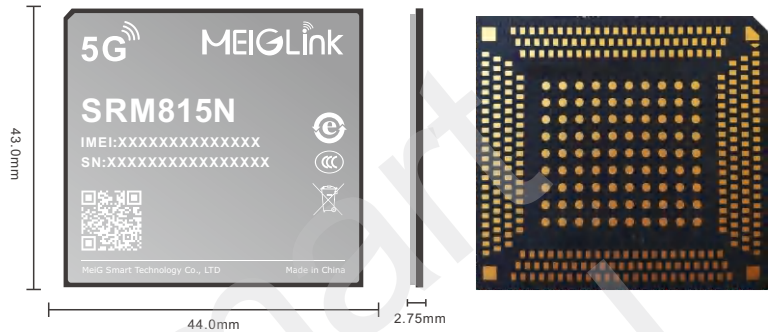
- Drivers: Windows 7, Windows 8, Windows 8.1, Windows 10, Linux, Android
- Tools: One Click Update Tool, Gobinet Dial Tool
- FOTA upgrade

Module Interfaces:

- 1x USB 2.0/USB 3.0/USB 3.1 with SS Gen2
- 1x PCIe Gen3.0
- 1x SDIO 3.0
- 1x UART
- SIM Card interface(1.8 / 3.0V)
- Antenna interface: main/diversity /MIMO antenna, with a total of 11 antennas
- 1x PCM
- 1x ADC
- WAKEUP-IN & WAKEUP-OUT
- GPIOs

Certifications:

- CE/CCC*/SRRC*/CTA*/FCC*



Transmission Power:

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

Protocols:

- RNDIS/NDIS/ECM/TCP/UDP

Temperature and Humidity:

- Normal working temperature: -30°C ~ +75°C
- Extended working temperature: -40°C ~ +85°C
- Storage temperature: -45°C ~ +90°C
- Humidity: 5%~95%

SRM815N Band Information:

SRM815N-EA:

Region: Europe, Australia, China, Japan, Korea

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

LTE-FDD: B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32/B71

LTE-TDD: B38/B39/B40/B41/B42/B43

WCDMA: B1/B5/B8

SRM815N-NA:

Region: North America, South America

5G NR: N2/N5/N7/N12/N13/N14/N25/N38/N41/N48/N66/N71/N77/N78

LTE-FDD: B2/B4/B5/B12/B13/B17/B25/B26/B28/B30/B71

LTE-TDD: B38/41/B42/B43/B48

WCDMA: B2/B4/B5

Remarks: *In research and development...

