



MeiG Smart SRM815 Module

5G NR Sub-6GHz MiniPCle Packaging

MeiG Smart SRM815 MiniPCle series of M2M modules are designed to provide IoT and eMBB services by 5G NR Sub-6GHz networks. It implement Qualcomm X55 chipset which support SA and NSA network types, and comply with 3GPP Release 15 standard. The frequencies can cover the main operators's network of the world. The maximum 2.1Gbps-DL and 900Mbps-UL data rates on 5G networks can be supported, and also it has backward compatibility with LTE-A and 3G networks to ensure working in remote areas.

The module uses a MiniPCle package and conforms to the industrial MiniPCle standard interface definition. It can support USB3.0, GPIO, and other interfaces. Compatible with multiple types of operating systems (Android, Linux, Windows 7/8/9/10, and other operating systems), with the advantages of interface standards, simple base plate design, and easier assembly, and can be widely used in wireless router and switch , vehicle , AR/VR and other fields.

Key Technologies:

- 5G NR Sub-6GHz, support 3GPP R15 and SA/NSA network type
- 5G NR DL Max Speed 2.1Gbps, UL Max Speed 900Mbps
- LTE-A support Cat. 16, DL Max Speed 1Gbps, UL Max Speed 200Mbps
- Carrier Aggregation
- Compatibility of 5G NR/LTE-FDD/LTE-TDD/WCDMA Networks
- Support Voice Codec (HR/FR/EFR/AMR/AMR-WB), support CSFB/VoLTE/VoNR
- Support MIMO and receive diversity technology, It can improve communication quality and data transmission speed.



5G NR



SA&NSA



MiniPCle



USB Port



UART



Embedded TCP/IP



MIMO



-40°C-85°C

MeiG Smart SRM815 Module

5G NR Sub-6GHz MiniPCIe Packaging

MEIG

Basic Features:

- Package: MiniPCIe Package
- Size: 51.0×49.0×5.4mm
- Weight: < 20g

Module Speed:

- 5G NR Sub-6GHz:
 - MIMO 4*4, 256QAM
 - Downlink up to 2.1Gbps
 - Uplink up to 900Mbps
- LTE Cat. 16:
 - MIMO 4*4, 256QAM
 - Downlink up to 1Gbps
 - Uplink up to 200Mbps
- DC-HSPA+:
 - Downlink up to 42.4Mbps
 - Uplink up to 5.76Mbps

Drivers & Tools:

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

Module Interfaces:

- USB 2.0/USB 3.0 with SS Gen2
- SIM card interface
- Antenna interface: 5G/4G/GNSS antenna, with 5 antennas in total
- Support PCM
- WAKEUP-IN & WAKEUP-OUT
- Flight mode
- Sleep wake-up
- LED guiding lights
- GPIOs

Certifications:

- CCC/CTA/SRRC/CE*



Transmission Power:

- Class 2 for N41/N77/N78
- Class 3 for LTE-FDD
- Class 3 for LTE-TDD

Protocols:

- NDIS/ECM/TCP/UDP/PPP/DTMF

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%

SRM815 Band Information:

SRM815-EA:
Region: EMEA, Korea, Australia
5G NR Sub-6G: N1/N3/N28/N40/N41/N77/N78/N79
LTE-FDD: B1/B3/B5/B7/B8/B18/B19/B20/B28
LTE-TDD: B34/B38/B39/B40/B41/B42
WCDMA: B1/B3/B5/B8

SRM815-CN:
Region: China
5G NR Sub-6G: N1/N28/N41/N78/N79
LTE-FDD: B1/B3/B5/B8/B28
LTE-TDD: B34/B38/B39/B40/B41
WCDMA: B1/B8

Remarks: *In research and development...

