

MeiG Smart SRM815 Module

5G NR Sub-6GHz LGA Packaging

MeiG Smart SRM815 series of M2M modules are designed to provide IoT and eMBB services by 5G NR Sub-6GHz networks. It implement Qualcomm SDX55 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.

Rx diversity and MIMO technology is provided to improve communication quality and optimize data transmission rate; high-sensitivity GNSS implementing the Qualcomm IZat™ Gen 9 technology is also provided, which support GPS/GLONASS/BeiDou/Galileo/QZSS

A rich set of interfaces(USB3.1/PCIe3.0/SDIO/SPI/UARTs/ADC/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:

- 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.20, DL Max Speed 2Gbps, UL Max Speed 200Mbps
- Carrier Aggregation
- Compatibility of 5G NR/LTE-FDD/LTE-TDD/WCDMA Networks
- GNSS: Qualcomm® IZat™ Gen 9 , including GPS/GLONASS/BeiDou/Galileo/QZSS
- High speed interfaces USB3.1、PCIe3.0
- 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



LGA



USB



ADC



MIMO



VoNR/VoLTE



GNSS

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5G NR Sub-6GHz LGA Packaging

MEIG

Basic Features:

- Package: LGA Package
- Size: 44.0×41.0×2.8mm
- Weight: 11g

Module Speed:

- 5G NR Sub-6GHz:
 - MIMO 4*4, 256QAM
 - Downlink up to 2.1Gbps
 - Uplink up to 900Mbps
- LTE Cat.20:
 - MIMO 4*4, 256QAM
 - Downlink up to 2Gbps
 - Uplink up to 200Mbps
- DC-HSPA+:
 - Downlink up to 42.4Mbps
 - Uplink up to 5.76Mbps

Drivers & Tools:

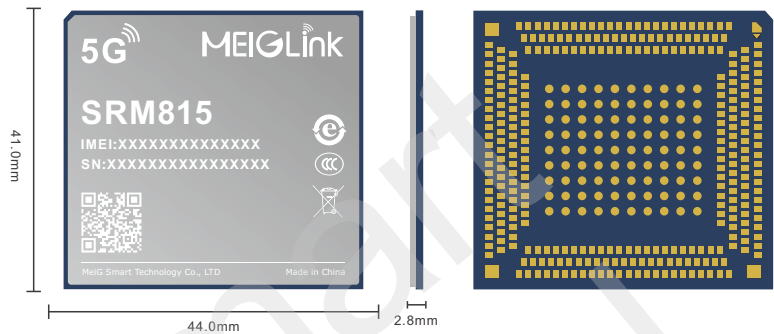
- Drivers: Windows 7, Windows 8, Windows 8.1, Windows 10, Linux, Android
- Tools: One Click update tool, Gobinet Dial Tool
- FOTA upgrade*

Module Interfaces:

- USB 2.0/USB 3.0/USB 3.1 with SS Gen2
- 1xPCIe Gen3.0
- 3xUART
- SIM card interface (1.8 / 3.0V)
- Master/diversity/MIMO/GNSS antenna, 9 antennas in total
- 1xI2C
- 1xSDIO 3.0
- Power On/Off, Reset
- 1xRGMII
- 2xADC
- 1xPCM
- 1xSPI
- GPIOs

Certifications:

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



Transmission Power:

- Class 2 for N41/N77/N78/N79
- Class 3 for LTE-FDD
- Class 3 for LTE-TDD

Protocols:

- TCP/UDP/SSL*/HTTP(S)*/FTP*/PPP/PING/DTMF/QMI/MQTT*
AGPS/SUPL2.0, VoNR/VoLTE/CSFB

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/B32*

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

SRM815-NA*:

Region: North America, South America

5G NR Sub-6G: N2/N5/N12/N25/N41/N48/N66/N71/N78

LTE-FDD: B2/B4/B5/B12/B13/B14/B25/B26/B28/B29/B30/B66/B71

LTE-TDD: B41/B42/B43/B48

WCDMA: B2/B4/B5

Remarks: *In research and development...

MeiG Smart Technology Co., Ltd

A Global Leading Supplier of Cellular Modules and Solutions

Add : 32/F, Building B, Shenzhen International Innovation Center,
No. 1006 Shennan Avenue, Futian District, Shenzhen, China
Tel : +86-755-83218588 Fax : +86-755-83219788
E-mail : ir@meigsmart.com Web : www.meigsmart.com



MeiG Official Wechat QR Code