



MeiG Smart SRM825W Module

5G NR M.2 Packaging

MeiG Smart SRM825W series of M2M modules are designed to provide IoT and eMBB services by 5G NR Sub-6GHz and mmWave networks. It implements Qualcomm X55 chipset which supports SA and NSA network types, and comply with 3GPP Release 15 standard. The frequencies cover the main operators's network of the world.

The maximum 6.78Gbps-DL and 1.45Gbps-UL data rates on 5G mmWave networks can be supported, the maximum 2.1Gbps-DL and 900Mbps-UL data rates on 5G Sub6GHz networks can be supported, and also it has backward compatibility with LTE-A and 3G networks to ensure working in remote areas.

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/RGMII/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:

- 5G NR Sub-6GHz and mmWave, support 3GPP R15 and SA/NSA network type
- 5G NR DL Max Speed 6.78Gbps, UL Max Speed 1.45Gbps
- 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、RGMII
- Support Voice Codec (HR/FR/EFR/AMR/AMR-WB), support CSFB/VoLTE/VoNR



Sub-6GHz mmWave



SA&NSA



USB3.1



PCIe 3.0



RGMII



MIMO



-40°C-85°C



GNSS

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MEIG

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Basic Features:

- Package: M.2 Package
- Size: 52.0×30.0×3.6mm
- Weight: About 12g

Module Speed:

- 5G NR mmWave:
 - MIMO 2*2, 64QAM, 800MHz Bandwidth
 - Downlink up to 6.78Gbps
 - Uplink up to 1.45Gbps
- 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:

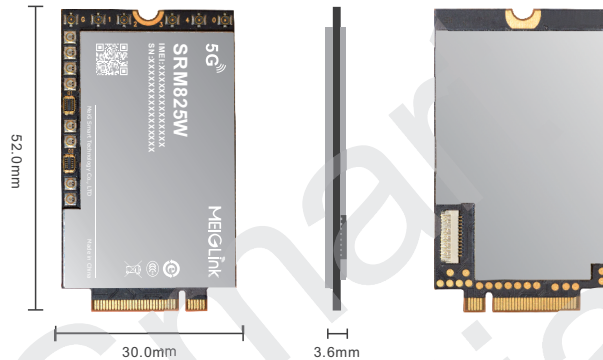
- Drivers: Windows 7, Windows 8, Windows 8.1, Windows 10, Linux, Android
- Tools: One Click update tool, Gobinet Dial Tool
- FOTA upgrade*

Module Interfaces:

- USB 2.0/USB 3.0/USB 3.1 with SS Gen2
- PCIe Gen3.0
- eSIM
- RGMII
- UART
- SIM Card interface(1.8 / 3.0V)
- Antenna interface: main/diversity /MIMO/GNSS antenna, with a total of 6 antennas
- mmWave RF connector x8
- QTM525 connector x2
- Power On/Off, Reset
- 1x PCM
- GPIOs

Certifications:

- CE*/FCC*/KC*/TELEC*



Transmission Power:

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

Protocols:

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

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%

SRM825W Band Information:

-EA:Region:EMEA,Australia

5G NR:N1/N3/N28/N40/N41/N77/N78/N79/N257/N258
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

-NA*:Region:North America,South America

5G NR:N2/N5/N12/N25/N41/N48/N66/N71/N77/N78/N258/N260/N261
LTE-FDD:B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71
LTE-TDD:B41/B42/B43/B46/B48
WCDMA:B2/B4/B5

Remarks:* under development

MeiG Smart Technology Co.,Ltd

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MeiG Official Wechat QR Code