



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 SDX55 chipset which supports SA and NSA network types, and comply with 3GPP Release 15 standard. The frequencies cover three operators' network in domestic and the main operators's network of the world.

The maximum 7.53Gbps-DL and 2.98Gbps-UL data rates on 5G mmWave networks can be supported, the maximum 4Gbps-DL and 450Mbps-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 I Z a t™ G e n 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 7.53Gbps, UL Max Speed 2.98Gbps
- 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



Sub6 G mmWave



SA&NSA



USB3.1



PCIe 3.0



RGMII



MIMO



-40°C-85°C



GNSS

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5G NR M.2 Packaging

MEIG 美格

Stock Code:002881

Basic Features:

- Package: M.2 Package
- Size: 52.0×30.0×3.6mm
- Weight: About 10g

Module Speed:

- 5G NR mmWave:
 - MIMO 2*2, 64QAM, 800MHz Bandwidth
 - Downlink up to 7.53Gbps
 - Uplink up to 2.98Gbps
- 5G NR Sub-6GHz:
 - MIMO 4*4, 256QAM
 - Downlink up to 4Gbps
 - Uplink up to 450Mbps
- 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

Authentication information:

- 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 70°C
- Extended operating temperature: -40°C to 85°C
- Storage temperature: -45°C to 90°C
- Humidity: 5%~95%

Certifications:

- SRRC/CE*/FCC*/PTCRB*

SRM825W Band Information:

-KR:Region:Korea

5G NR :N78/N257
LTE-FDD:B1/B3/B5/B7/B8/B28
WCDMA:B1

-NA: Region: North America, South America

5G NR :
N2/N5/N12/N25/N41/N48/N66/N71/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

-EU:Region: Europe, Australia

5G NR:
N1/N3/N5/N7/N8/N20/N28/N38/N40/N78/N257/N258
LTE-FDD:B1/B3/B5/B7/B8/B20/B28/B32
LTE-TDD:B38/B40/B46
WCDMA:B1/B3/B5/B8

