



MeiG Smart SRM817WE Module

5G Advanced Ready LGA Packaging

MeiG Smart SRM817WE is designed for IoT and eMBB applications services by 5G NR Sub-6GHz and mmWave networks. Based on Qualcomm Snapdragon® X75 5G modem, it complies with 3GPP Release 17 standards and can support SA and NSA, covering the main operators' network of the world.

SRM817WE series modules support up to four mmWave antennas, with mmWave supporting up to 800MHz bandwidth and up to 10G peak downlink rates. Sub-6GHz supports 5G NR downlink CA, TDD/FDD 3CC CA, and up to 300MHz bandwidth, as well as 8RX and PC 1.5 in 5G core bands, which effectively boosts 5G UL and DL transmission rates.

SRM817WE is packaged in LGA with a size of 56.0x53.0x2.95mm. It adopts quad-core A55 processor, with a clock speed of up to 2.2GHz, provides enhanced processing power and rich peripheral interfaces, which can support 3 groups of high-speed PCIe, 2 groups of USXGMII, USB 3.1, multiplexed UART, ADC and GPIO. With eSIM support reserved inside, it can support the latest Wi-Fi 7 and 10Gb Ethernet power, which brings more flexible choices and more competitive price for FWA/eMBB/industrial router.

In addition, SRM817WE can support OpenWRT and OpenCPU, which is more flexible and greatly simplifies the development process of 5G terminal devices, and will empower various related products such as FWA, eMBB, automotive, industrial IoT, and 5G enterprise network.

Main Advantages:

- Conform to 3GPP Release 17 Standard
- Support up to 4 mmWave antennas and 8RX
- Support Sub-6GHz TDD/FDD 3CC CA, bandwidth can up to 300MHz
- Rich PCIe, USXGMII high-speed interfaces, more flexible soft AP solutions
- Support OpenWRT and OpenCPU



5G NR



SA&NSA



LGA Package



Multiple Groups
PCIe/USXGMII



OpenWRT



-40°C-85°C

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MEIG

General Feature:

- Package: LGA Package
- Size: 56.0×53.0×2.95mm
- Weight: <15g

Module Speed:

- 5G NR mmW:
 - 10Gbps DL/3.3Gbps UL
- 5G NR Sub 6G SA:
 - 6Gbps DL/900Mbps UL
- LTE:
 - 2Gbps DL/200Mbps UL

Drivers & Tools:

- Driver: Windows 7, Windows 8, Windows 8.1, Windows 10, Linux, Android
- Tool: Graphical upgrade tool, logging tool
- USB upgrade, FOTA upgrade

Protocol:

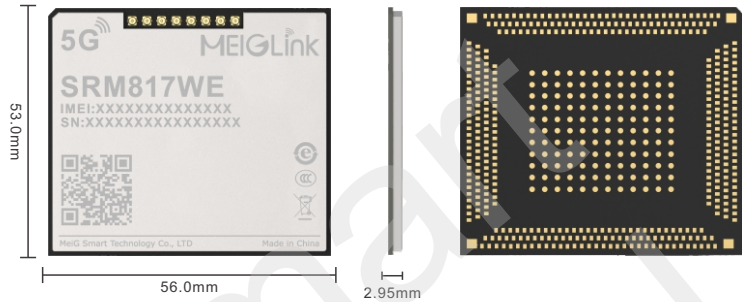
- RNDIS/NDIS/IPv4/IPv6/TCP/UDP

Interfaces:

- USB3.1 × 1
- PCIe Gen3.0 × 3
- USXGMII × 2
- SDIO3.0 x1
- I2C x 1, I2S x 1, SPI x 1, GPIOs
- USIM × 2
- mmWave RF Connector x8
- Total 11 Antenna interfaces:
 - 4G/5G: x6
 - 8RX: x4
 - GNSS: x1

Certification:

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



Transmission Power:

- Class 1.5 (29dBm±3dB) for N77/N78
- Class 2 (26dBm±1.5dB) for N40/N41/N77/N78
- Class 3 (23dBm±1.5dB) for 5G others & LTE

Temperature & Humidity:

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

SRM817WE Frequency Band:

-EA: Region: Europe, Australia, Japan, Korea, Southeast Asia

5G NR mmWave:

N257/N258/N259

5G NR Sub6G:

FDD: N1/N3/N5/N7/N8/N20/N28/N71/N75/N76

TDD: N38/N40/N41/N77/N78

LTE:

FDD: B1/B3/B5/B7/B8/B20/B28/B32

TDD: B38/B40/B41/B42/B43/B71

WCDMA:

B1/B5/B8

-NA: Region: America

5G NR mmWave:

N259/N260/N261

5G NR Sub6G:

FDD: N2/N5/N7(30)/N12/N13/N14/N25/N26/N29/N66/N71

TDD: N38/N41/N48/N77/N78

LTE:

FDD: B2/B4/B5/B7(30)/B12/B13/B14/B17/B25/B26/B66/B71

TDD: B38/B41/B42/B43/B48

WCDMA:

B2/B4/B5

Remarks: * Under Development

MeiG Smart Technology Co., Ltd

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MeiG Official Wechat QR Code