



# MeiG Smart SRM813Q Module

5G RedCap LGA Package Module

MeiG Smart SRM813Q series module is a 5G reduced capability module designed for IoT/eMBB applications, based on Qualcomm Technology Snapdragon®X35 5G modem and RF system design. It complies with the latest 3GPP Release 17 standard and features. Support 5G independent networking (SA) mode and backward compatible with 4G networks, can cover the global mainstream operator networks. It can support 64QAM/256QAM (optional) modulation mode, the theoretical DL peak rate can reach 220Mbps, the theoretical maximum UL rate can reach 100Mbps. Compared with 4G Cat.4 products, it can obtain higher UL and DL throughput.

The module adopts LGA package, with size 29x32x2.4mm, can provide a rich function interfaces to expand peripherals, support USB2.0, PCIe2.0, SGMII, SDIO, SPI, multi-channel UARTs, ADC, GPIO and other interfaces, 4G/5G adopts 2 antennas design, Internal reserved eSIM support; It can be adapted to a variety of operating systems (Android, Linux, Windows, etc.), and has a rich network protocol.

SRM813Q series module can achieve lower cost, fewer antenna number, smaller size and lower power consumption by streamlining the system architecture. It strongly enables vertical industries such as mobile broadband, industrial Internet, smart energy, video surveillance, laptop computers, vehicle networking, and smart wearables to accelerate the large-scale commercialization of 5G.

## Product Feature:

- ▣ 5G reduced capability module, higher cost performance
- ▣ Small size LGA package, Pin-to-Pin design with 4G Cat.4 product
- ▣ Two antennas full-band design reduces the complexity of 5G terminal design
- ▣ Supports network slicing, 5G LAN, and high-precision timing features



5G NR



SA & LTE



LGA Package



USB2.0 Port



PCIe 2.0



-40°C-85°C



VoNR/VoLTE\*

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5G RedCap LGA Package Module

MEIG

## Basic Features:

- Package: LGA Package
- Size: 29.0×32.0×2.4mm
- Weight: About 8g

## Module Speed:

- 5G NR SA:
  - Downlink up to 220Mbps
  - Uplink up to 100Mbps
- LTE:
  - Downlink up to 220Mbps
  - Uplink up to 100Mbps

## Drivers & Tools:

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

## Protocols:

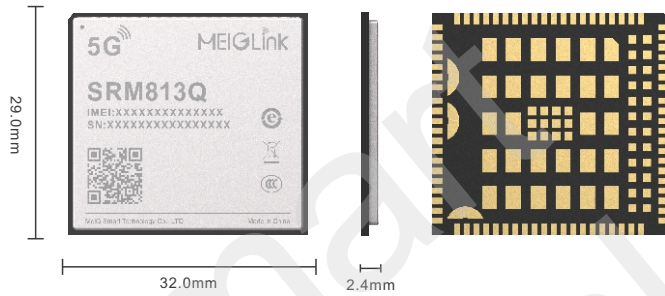
- RNDIS/NDIS/IPv4/IPv6/TCP/UDP

## Module Interfaces:

- USB2.0 × 1
- PCIe Gen2.0 × 1
- SDIO3.0 x1
- SGMII x1
- USIM × 2 1.8V/3V
- 3 antenna interfaces:
  - 4G/5G x2
  - GNSS x1

## Certifications:

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



## Transmission Power:

- Class 3 (23dBm±1.5dB) for 5G & LTE

## 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%

## SRM813Q Band Information:

-CN:Region: China

5G NR:

FDD:N1/N5/N8/N28  
TDD:N41/78

LTE:

FDD:B1/B3/B5/B8  
TDD:B34/B38/B39/B40/B41

-NA:Region:North America

5G NR:

FDD:N2/N5/N7/N12/N13/N25/N66/N71  
TDD:N38/N41/N48/N77/N78

LTE:

FDD:B2/B4/B5/B7/B12/B13/B17/B25/B26/B66/B71  
TDD:B38/B41/B42/B43/B48

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

5G NR:

FDD:N1/N3/N5/N7/N8/N20/N28  
TDD:N38/N40/N41/N77/N78

LTE:

FDD:B1/B3/B5/B7/B8/B20/B28  
TDD:B38/B40/B41/B42/B43

Remarks:\* under development

