

MeiG-SRM900

Multi-Mode 5G/LTE Smart Module

Support Wi-Fi (ax ready)

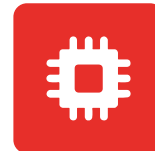


MeiG Smart SRM900 adopts Qualcomm 5G SoC SDM690(SM6350), 8 Kryo™ CPU560 (2* A77 2.0GHz + 6* A55 1.7GHz) with 8nm FinFET process, Adreno™ GPU 619, V66A 1.2GHz+Dual HVX. It supports 4K@30fps video encoding/decoding and support H.264/H.265. It runs Android 11 operating system, built-in 64GB+4GB (or 128GB+6GB, or 128GB+8GB), supports 5G NR sub-6Ghz, DL 4x4 MIMO, UL 1x1 MIMO, NSA and SA, integrated GPS, WIFI and BT functions.

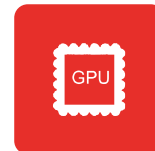
SRM900 integrates rich functional interfaces, including LCM, touch screen, camera, microphone, speaker, UART, USB, I2C, SPI, PCIe etc. It supports voice, SMS, address book, and widely applied in 5G video recorder, smart cockpit, intelligent POS cash register, logistics terminal, VR Camera, smart robot, video surveillance, security surveillance, intelligent information acquisition, intelligent handheld terminals, drones and other products.

Main Advantage

- ✓ Support 5G NR sub-6Ghz, DL 4 × 4 MIMO SA/NSA mode and UL 1 × 1 MIMO SA mode
- ✓ Support 2x2 MU MIMO WIFI, 11ax ready
- ✓ Support V66A 16/16/512KB 1.2GHz+Dual HVX
- ✓ Support dual screen display and dual touch, 2520*1080 resolution @60fps+QHD60 via Display-Port
- ✓ Support 3*ISP, 1*ISP-lite, 16+16+16MP ZSL, MCTF
- ✓ Integrated GPS L1+L5
- ✓ Support 4K@30fps decode and encode



Qualcomm
8 core Kryo560



Adreno™
GPU 619



Android 11



DL 4x4 MIMO
UL 1x1 MIMO



5G sub-6GHz
SA/NSA



2x2 MIMO
ax ready



L1+L5



V66A 1.2GHz
+2x HVX

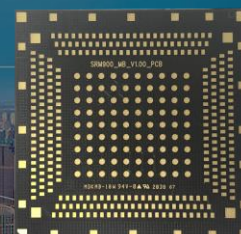


LGA

MeiG-SRM900

Multi-Mode 5G/LTE Smart Module

Support Wi-Fi (ax ready)



47mm

48mm

3mm

Frequency Band

SRM900-C:

5G-NR: N1/N28/N41/N78/N79

LTE-FDD: B1/B3/B5/B8

LTE-TDD: B34/B38/B39/B40/B41

SRM900-E:

5G-NR: N1/N3/N20/N28/N78

LTE-FDD: B1/B3/B5/B7/B8/B20

LTE-TDD: B38/B40/B41

SRM900-J:

5G-NR: N1/N3/N77/N78/N79

LTE-FDD: B1/B3/B8/B9/B19/B26/B28

LTE-TDD: B41

SNM930:

Wi-Fi & BT only

Other region:

TBD

Audio & Video

Supports VoLTE ultra HD voice calls, SRVCC/CSFB voice drop technology

24-bit/192kHz Hi-Fi music playback

Video codec:

Decode: 4K@30fps 10-bit;

Encode: 4K@30fps 8-bit;

Concurrency: 4K@30 decode+1080P@30 encode

Display Interface

2520x1080@60fps + QHD60 via Displayport

One 4-lane DSI, D-PHY 1.2, C-PHY 1.0

DisplayPort support over USB Type-C

Touch Screen Interface

I2C capacitive touch screen

Camera Interface

4 x 4-lane CSI

Support 3 x ISP 14 bit + 1 x lite ISP: 16 + 16 + 16 MP

32MP, 30ZSL with dual ISP

Audio Interface

Analog output: speaker, earpieces, earphone

Analog input: 3xmicrophone, 1 x noise reduction microphone

USB Interface

USB3.0*1, support QC4.0, USB OTG

Antenna Interface

Main antenna*4, GNSS antenna*1, Wi-Fi & BT antenna*2

Other Interfaces

I2C: x 5

(U)SIM: x 2 (1.8V/2.95V)

UART: x 3 (support hardware flow control, up to 4Mbps)

SD Card: x 1 (Support SD 3.0, 4-bit SDIO)

PWRKEY: 1.8V, Internal pull-up

SPI: x 2(one can be multiplexed as UART, one can be multiplexed as I2S)

ADC: x 2

GPIO: x 19

Motor driver: x 1

Flashlight: x 2

LED: x 4

Outstanding Features

WLAN: 2.4G/5G, 2x2 MU MIMO, 802.11 a/b/g/n/ac, 11ax ready

BT: BT2.1+EDR/3.0/4.1 LE/5.x BLE

GNSS: GPS/GLONASS/BeiDou, L1+L5GPS

Modem:

3GPP Rel.15 5G NR

sub-6GHz 5G NR

256 QAM uplink/downlink in sub-6GHz

Rel.15 LTE multi-mode modem

Built-in charge IC and fuel gauge,

Support Qualcomm Quick Charge 4.0

Support dual screen display and dual touch

Support DSDS

Firmware upgrade via USB

General Features

OS: Android 11

Storage:

64GB UFS+4GB LPDDR4x (default)

128GB UFS+6GB LPDDR4x (optional)

128GB UFS+8GB LPDDR4x (optional)

Working Temperature: -30°C ~ +75°C

Storage Temperature: -40°C ~ +90°C

Working Voltage: 3.5V~4.35V (typical value: 3.8V)

Size: 47.0mm x 48.0mm x 3.0mm

Package: LGA

Weight: about 13.0g

Certification

CCC