

MeiG-SRM700

Multi-mode 5G Smart Module

Support Wi-Fi 6E & L1+L5 GNSS



MeiG Smart SRM700 adopts Qualcomm 5G SoC QCM4490 platform, 8 Kryo™ CPU (2* GoldA78 2.4GHz + 6* SliverA55 2.0GHz) with 4nm FinFET process, Adreno™ GPU 613, open GL ES 3.2, Vulkan1.x and OpenCL 2.0, DX FL12. It supports 1080p@60fps video encoding /1080p@60fps decoding and support H.264/H.265. It runs Android 13 operating system, built-in 64GB+4GB (or 128GB+8GB, or 256GB+12GB), supports 5G NR sub-6GHz, DL 4x4 MIMO, UL: 256QAM, NSA and SA, integrated L1+L5 GPS, 2x2 MIMO WIFI 6E and BT 5.2 functions.

SRM700 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
- ✓ Support WIFI 6E, 2x2 MIMO
- ✓ Support FHD+ (1080x2520) @ 90/120Hz
- ✓ Dual cameras: 16+16 MP@ 30 fps
- ✓ Integrated GPS L1+L5 for fast and accurate positioning in different environments
- ✓ Support 1080p@ 60fps video en/decode
- ✓ Rich interfaces: USB / GPIO / SPI / UART / ...
- ✓ Lifecycle can last until 2030



Qualcomm
8 Kryo™



Adreno™
GPU 613



Android 13



DL 4x4 MIMO
UL: 256 QAM



5G sub-6GHz
SA/NSA



2x2 MIMO
WIFI 6E



L1+L5



Lifecycle: 2030

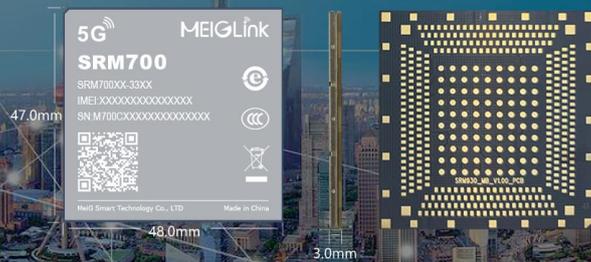


LGA

MeiG-SRM700

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Support WIFI 6E & L1+L5 GNSS



Frequency Band

SRM700-C:

- 5G-FDD: N1/N3/N5/N8/N28
- 5G-TDD: N41/N78/N79
- LTE-FDD: B1/B3/B5/B8
- LTE-TDD: B34/B38/B39/B40/B41
- WCDMA: B1/B8
- CDMA: BC0

SRM700-E:

- 5G-FDD: N1/N3/N5/N8/N20/N28
- 5G-TDD: N38/N40/N41/N77/N78/N79
- LTE-FDD: B1/B3/B5/B7/B8/B20/B26/B28
- LTE-TDD: B38/B40/B41
- WCDMA: B1/B5/B8

SNM700:

Wi-Fi & BT only

Other region:

TBD

Multimedia Information

Video en/decode:

- Decode: 1080P@60fps H.264/H.265/VP9
- Encode: 1080P@30fps H.264/H.265
- Concurrency:
1080p30 decode + 1080p30 encode

Display Interface

- FHD+(1080x2520)@ 60/90/120 Hz
- One 4-lane DSI

Camera Interface

- 3 x 4-lane CSI D-PHY 1.2 or C-PHY 1.2
- 16 + 16 MP/25 MP @ 30 fps

Touch Screen Interface

- I2C capacitive touch screen

Audio Interface

- Analogue output: speaker, earpieces, earphone
- Analogue Input: 3 x microphone, 1x noise reduction microphone
- Digital Interface:
 - 2 x MI2S
 - 3 x DMIC

USB Interface

- 1 x USB 3.1 Gen1, support USB OTG

Antenna Interface

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

Other Interfaces

- I2C interface: x5
- (U)SIM interface: x2 (1.8V/2.95V)
- UART interface: x3 (support hardware flow control, the highest rate up to 4Mbps)
- SD card interface: x1 (support SD 3.0, 4-bit SDIO, dual-voltage)
- SPI interface: x2
- ADC interface: x2
- GPIO interface: x19
- PWRKEY: 1.8V, internal pull up

Outstanding Feature

- WLAN: WIFI 6E(2 × 2 MU-MIMO 802.11a/b/g/n/ac/ax)
- BT: BT5.2
- GNSS: GPS/GLONASS/BeiDou, L1+L5 GPS
- Modem:
 - 3GPP 5G Rel.16
 - sub-6 GHz 5G NR
 - Sub-6: 256 QAM for uplink and downlink
- Support DSDS
- Firmware upgrade via USB

General Feature

OS: Android 13

Storage

64GB UFS+4GB LPDDR5(separation) (default)
128GB UFS+8GB LPDDR5(separation) (optional)
256GB UFS+12GB LPDDR5(separation) (optional)
Work temperature: -30°C ~ +75°C
Storage Temperature: -40°C ~ +90°C
Work voltage: 3.5V~4.35V(typical value: 3.8V)

Size: 47.0mm × 48.0mm × 3.0mm

Package: LGA

Weight: 13.0g

Certification

CCC*/CE*

* means under development