

MeiG-SRM930

Multi-Mode 5G Smart Module

Support Wi-Fi 6E & L1+L5 GNSS

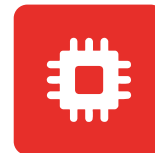


MeiG Smart SRM930 adopts Qualcomm 5G SoC QCM6490 platform, Kryo™ 6xx CPU (1 * A78 2.7 GHz + 3 * A78 2.4 GHz + 4 * A55 1.9 GHz) with 6nm FinFET process, 64bit ARM V8 kernel, Adreno™ GPU 643, open GL ES 3.2, Vulkan1.x and OpenCL 2.0. SRM930 has built-in AI processors Dual HVX and 4K HMX with AI computing power exceeding 10 Tops. It installs Adreno VPU 633, supports 4K30 video encoding /4K60 decoding and support H.264/H.265. It runs Android 11 operating system, built-in 64GB+4GB (or 128GB+6GB), supports 5G NR sub-6Ghz, DL 4x4 MIMO, UL 1x1 MIMO, NSA and SA, integrated L1+L5 GPS, 2x2 MIMO WIFI 6E and BT 5.2 functions.

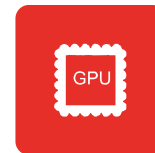
SRM930 integrates rich functional interfaces, including LCM, touch screen, camera, microphone, speaker, UART, USB, I2C, SPI, PCIe etc. It supports voice, SMS, address book, and widely applied in 5G video recorder, smart cockpit, intelligent POS cash register, logistics terminal, VR Camera, smart robot, 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 WIFI 6E, 2x2 MU MIMO
- ✓ High AI computing power
- ✓ Support dual display (FHD+@60fps DSI + 4K@60fps DP)
- ✓ 5 x CSI, 3 x Bayer + 2 x RDI
- ✓ Integrated L1+L5 GNSS for fast and accurate positioning in different environments
- ✓ Support 4K@30fps encode; 4K@60fps decode
- ✓ Rich interfaces: USB / PCIe / SPI / UART / ...



Qualcomm
8 core Kryo™



Adreno™
GPU 643



Android11



DL 4x4 MIMO
UL 1x1 MIMO



5G sub-6GHz
SA/NSA



2x2 MIMO
WIFI 6E



L1+L5
GNSS



Dual HVX & 4K HMX



LGA

MeiG-SRM930

Multi-mode 5G Smart Module

Support WIFI 6E & L1+L5



Frequency Band

SRM930-CN:

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

LTE-FDD: B1/B3/B5/B8

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

SRM930-EU:

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

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

LTE-TDD: B38/B40/B41

SRM930-JP:

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 version:

TBD

Multimedia Information

Video Codec:

• Decode: 4K@60fps H.264/H.265/VP9

• Encode: 4K@30fps H.264/H.265

• Concurrency:

1080p60 D + 1080p60 E or 4K30 D + 1080p30E

Display Interface

MIPI DSI: FHD+ 1200*2520@144Hz

Display Port: • 3840 x 2160@60Hz, 24bpp

• 3840 x 2160@60Hz, 30bpp

Camera Interface

• 5 x 4-lane CSI D-PHY 1.2 or C-PHY 1.2

• 3 x 14 bit ISP + 2 x lite ISP

22 + 22 + 22 MP or 64MP 30fps

Touch Screen Interface

• I2C capacitive touch screen

Audio Interface

• Analog output: speaker, earpiece, earphone

• Analog input: 3xmicrophone,

1 x noise reduction microphone

• Digital interface:

4 x MIS, 2 x I2S

Support Audio over USB Type-C

USB Interface:

• 2 x USB: 1 x USB 3.1 Gen1(OTG)+ 1 x USB 2.0

Antenna Interface

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

Other Interface

• PCIe: x1 (PCIe Gen 3 2-lane)

• I2C: x5

• (U)SIM: x2 (1.8V/2.95V)

• UART: x3 (support hardware flow control, up to 4Mbps)

• SD card: x1 (support SD 3.0, 4-bit SDIO Dual-voltage)

• SPI: x2

• ADC: x2

• GPIO: x19

• Motor driver: x1

• Flashlight: x2

• LED indicator: x4

• PWRKEY: 1.8V, internal pull-up

Outstanding Interface

• WLAN: WIFI 6E(2.4G/5G, 2x2 MU MIMO, 802.11 a/b/g/n/ac/ax)

• BT: BT5.2

• GNSS: GPS/GLONASS/BeiDou, L1+L5 GPS

• Modem:

3GPP Rel.15 5G NR

sub-6 GHz 5G NR

256 QAM uplink/downlink in sub-6 GHz

Rel.15 LTE multi-mode modem

Support dual display

Support DS2S

Firmware upgrade via USB

General Feature

OS: Android 11

Storage:

64GB UFS+4GB LPDDR4x (uMCP) (default)

128GB UFS+6GB LPDDR4x (uMCP) (option)

128GB UFS+8GB LPDDR4x (uMCP) (option)

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 × 48.0mm × 3.0mm

Package: LGA

Weight: 13.0g

Certification

CCC

* Means under development

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