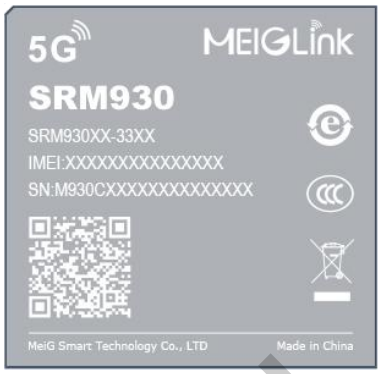
MeiG-SRM930L

Multi-mode 5G/LTE Smart Module

Support Wi-Fi 6E,L1+L5 GPS



MeiG Smart SRM930L is the smart module using Qualcomm 5G SoC QCM5430 platform, Kryo™ 670 CPU (4 * A78 2.1GHz + 4* A55 1.8GHz) with 6nm FinFET process, 64bit ARM V8, Adreno™ GPU 642L, open GL ES 3.2, Vulkan1.x and OpenCL 2.0. SRM930L has built-in AI processors Dual HVX and 2K HMX with AI computing power exceeding 3.5 Tops. It installs Adreno™ VPU 633, supports 4K30 video encoding /4K60 decoding and H.264/H.265 running Android 11 operating system, built-in 64GB+4GB (or 128GB+8GB), 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.

SRM930L integrates rich functional interfaces, including LCM, touch screen, camera, microphone, speaker, UART, USB, I2C, SPI etc. It supports voice, text messages, 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 Advantages

- ✓ 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
- ✓ 3.5 Tops AI performance
- ✓ Support dual display (FHD+@60fps DSI + 4K@60fps DP)
- ✓ 4 x CSI, 2 x Bayer + 2 x RDI
- ✓ L1+L5 GNSS
- ✓ Support 4K@30fps encode / 4K@60fps decode
- ✓ Rich interfaces：USB / SPI / UART / ...

Qualcomm Kryo™ 670(8-cores)

Adreno™ GPU 642L

Android 11

DL 4x4 MIMO UL 1x1 MIMO

5G sub-6GHz SA/NSA

2x2 MIMO WIFI 6E

L1+L5 GPS

3.5 Tops

LGA package

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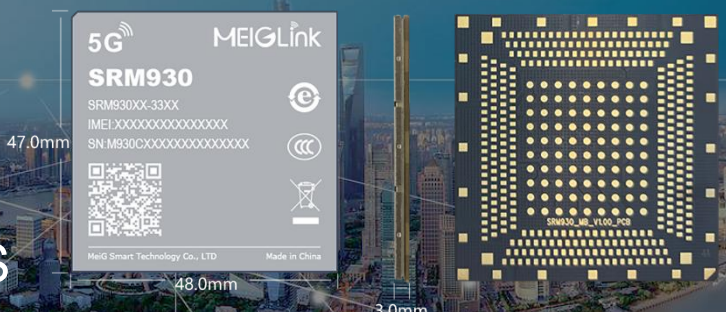
Support Wi-Fi 6E & L1+L5 GNSS



Frequency Band

SRM930L-C（China）:
5G-NR: N1/N28/N41/N78/N79
LTE-FDD: B1/B3/B5/B8
LTE-TDD: B34/B38/B39/B40/B41

SRM930L-E（Europe）:
5G-NR: N1/N3/N20/N28/N78
LTE-FDD: B1/B3/B5/B7/B8/B20
LTE-TDD: B38/B40/B41

SRM930L-J（Japan）:
5G-NR: N1/N3/N77/N78/N79
LTE-FDD: B1/B3/B8/B9/B19/B26/B28
LTE-TDD: B41

SNM930L（WI-FI only）:
Wi-Fi & BT only

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

Interfaces

Display Interfaces

FHD+@60fps MIPI-DSI + 4K@60fps Displayport

- One 4-lane DSI, D-PHY 1.2 or C-PHY 1.2
- DisplayPort v1.4w over USB Type-C

Camera Interfaces

- 4 x 4-lane CSI D-PHY 1.2 or C-PHY 1.2
- 2 × 14 bit ISP + 2 × lite ISP

22 + 22 MP or 64MP 30fps

Touch screen Interfaces

- I2C capacitive touch screen

Audio Interfaces

Analog output: speaker, earpieces, earphone
Analog input: 3 x microphones, supporting 1 x noise reduction microphones
Digital interface:
4 x MIS interface, 2 x I2S interface
Audio over USB Type-C is supported

USB Interfaces

- Dual USB Interfaces:

1 x USB 3.1 Gen1 + 1 x USB 2.0 Support USB OTG

General 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,dual-voltage）
- SPI: x 2
- ADC: x 2
- GPIO: x 19
- Motor driver: x 1
- Flashlight: 2-way
- LED: x 4
- PWRKEY: 1.8V, Internal pull-up

Antenna Interfaces

Main antenna, GNSS antenna, Wi-Fi & BT Antenna

Outstanding Features

- WLAN: WIFI 6E(2.4G/5G, 2x2 MU MIMO, 802.11 a/b/g/n/ac/ax)
- Bluetooth: 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-6GHz
  Rel.15 LTE multi-mode modem

Built-in charge IC and fuel gauge
Support Qualcomm Quick Charge 4.0
Support dual-screen display
Support DSDS
Firmware update via USB

General Features

OS: Android 11
Storage:
64GB UFS + 4GB LPDDR4x （default）
128GB UFS + 8GB LPDDR4x （optional）
256GB UFS + 12GB LPDDR4x （optional）

Working Temperature: -30°C ~ +75°C
Size: 47.0mm × 48.0mm × 3.0mm
Package: LGA
Weight: About 13.0g

Certification:

CCC*

*means in developing

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