



MeiG Smart SRM930 Module

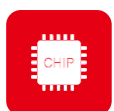
Multi-Mode 5G/LTE Smart Module
Support Wi-Fi 6E, L1+L5 GPS

MeiG Smart SRM930 is the latest smart module using Qualcomm 5G SoC QCM6490 platform, Kryo™ 6xx CPU (1 * A78 2.7 GHz + 3 * A78 2.4 GHz + 6 * A55 1.9 GHz) with 6nm FinFET process, 64bit ARM V8 kernel, Adreno™ GPU 635, 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 H.264/H.265 running 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.

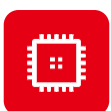
SRM930 integrates rich functional interfaces, including LCM, touch screen, camera, microphone, speaker, UART, USB, I2C, SPI, PCIe etc. It supports voice, text messages, address book, and widely applied in 5G video recorder, smart cockpit, intelligent POS cash register, logistics terminal, VR Camera, 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
- AI computing power > 10 Tops
- Support dual display (FHD+@60fps DSI + 4K@60fps DP)
- 5 x CSI, 3 x Bayer + 2 x RDI
- Integrated GNSS (L1+L5 dual bands) for fast and accurate positioning in different environments.
- Support 4K@30fps encode / 4K@60fps decode
- Rich interfaces : USB / PCIe / SPI / UART / ...



Qualcomm
8*Kryo™ 6xx



Adreno™
GPU 635



Android 11.0



DL 4x4 MIMO
UL 1x1 MIMO



5G sub-6GHz
SA/NSA



2x2 MIMO
Wi-Fi 6E



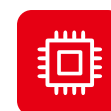
L1+L5 GPS



>10 TOPS



LGA
Packaging



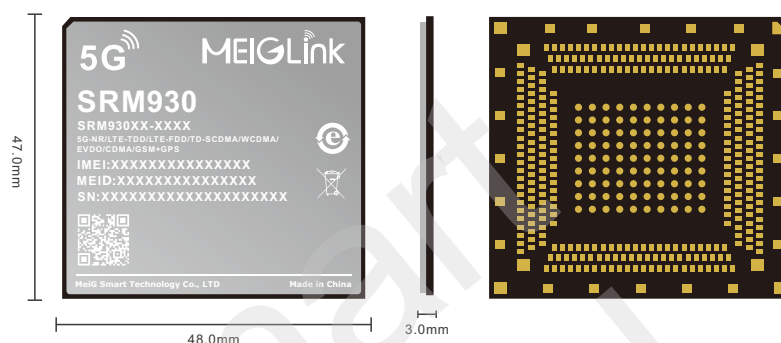
Support
USB/PCIe Port

MeiG Smart SRM930 Module

Multi-mode Smart 5G Module
Support Wi-Fi 6E , L1+L5 GPS

General features:

- ❑ OS:Android 11
- ❑ Storage:64GB UFS + 4GB LPDDR4x (default)
128GB UFS + 6GB LPDDR4x (optional)
- ❑ Working Temperature:-40°C ~ +75°C
- ❑ Size:47.0x48.0x3.0mm
- ❑ Package:LGA
- ❑ Weight:about 13.0g
- ❑ Certification:CCC*



Outstanding features:

- ❑ WLAN:Wi-Fi 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-6 GHz
 - Rel.15 LTE multi-mode modem
- ❑ Built-in charging chip and electricity meter
- ❑ Support Qualcomm Quick Charge 4.0
- ❑ Support dual-screen display
- ❑ Support dual sim dual standby
- ❑ Firmware update via USB

General Interfaces:

- PCIe:x 1 (PCIe Gen 3 2-lane)
- 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 drive:x 1
- Flashlight:2-way
- LED:x 4
- PWRKEY:1.8V, Internal pull-up

Antenna Interfaces:

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

USB Interfaces:

- ❑ Dual USB Interfaces:1 x USB 3.1 Gen1 + 1 x USB 2.0
- ❑ Support USB OTG

Camera Interfaces:

- ❑ 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

Audio Interfaces:

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

Touch screen Interfaces:

- ❑ I2C capacitive touch screen

Audio Interfaces:

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

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

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

Frequency Band:

EMEA version

5G-NR:N1/N3/N8/N20/N28/N38/N41/N78/N79
LTE-FDD:B1/B3/B5/B7/B8/B20
LTE-TDD:B34/B38/B39/B40/B41
WCDMA:B1/B5/B8
TDD-SCDMA:B34/B39
GSM:B2/B3/B5/B8

*means in developing

