

MeiG-SNM930

High Computation AI Module

Support Wi-Fi 6E & BT5.2



MeiG Smart SNM930 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. SNM930 has built-in AI processors Dual HVX and 4K HMX with AI computing power exceeding 14 Tops. It installs Adreno VPU 633, supports 4K30 video encoding /4K60 decoding and support H.264/H.265. It runs Android 11/Ubuntu Linux operating system, built-in 64GB+4GB (or 128GB+6GB), supports 2x2 MIMO WIFI 6E and BT 5.2 functions.

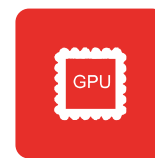
SNM930 integrates rich functional interfaces, including LCM, touch screen, camera, microphone, speaker, UART, USB, I2C, SPI, PCIe etc. It supports voice, SMS, address book, and widely applied in video conference, VR Camera, smart robot, video surveillance, security surveillance, intelligent information acquisition, live terminal and other products.

Main Advantage:

- ✓ Qualcomm 8 core Kryo™, high AI computation
- ✓ Android 11/Ubuntu Linux
- ✓ Support WIFI 6E, 2x2 MU MIMO
- ✓ Support dual display (FHD+@60fps DSI + 4K@60fps DP)
- ✓ 5 x CSI, 3 x Bayer + 2 x RDI
- ✓ Support 4K@30fps encode;4K@60fps decode
- ✓ Rich interfaces: USB / PCIe / SPI / UART / ...
- ✓ Long life-cycle, until 2030



Qualcomm
8 core Kryo™



Adreno™
GPU 643



Android 11/
Ubuntu Linux



2x2 MIMO
WIFI 6E



Dual HVX &
4K HMX

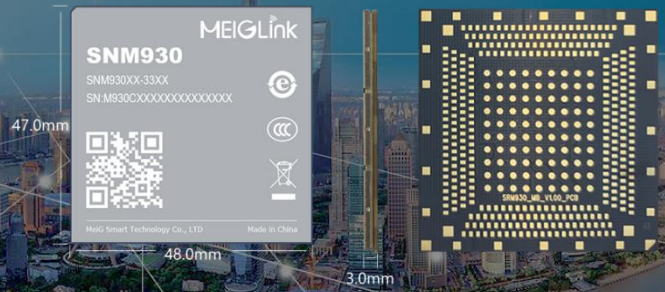


LGA

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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

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

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

Camera Interface

- 5 x 4-lane CSI D-PHY 1.2 or C-PHY 1.2
- 3 × 14 bit ISP + 2 × 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

Wi-Fi & BT antenna*2

Other Interface

- PCIe: x1 (PCIe Gen 3 2-lane)
- I2C: x5
- 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

Support dual display

Firmware upgrade via USB

General Feature

OS: Android 11/Ubuntu Linux

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 × 48.0mm × 3.0mm

Package: LGA

Weight: 13.0g

Certification

CCC

* Means under development