

# MeiG-SNM960

## High Computations Smart Module

## Support Wi-Fi 6E & BT5.2



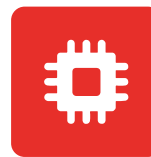
MeiG SNM960 series module is developed on the Qualcomm Snapdragon 800 series SM8475(8+Gen1) solution, which integrates Qualcomm 8-core Kryo™ 780 CPU (1x Kryo Prime 3.2 GHz + 3x Kryo Gold 2.75 GHz + 4x Kryo Silver 2.0 GHz) with 4nm process. With Qualcomm Adreno™ DPU 1195, it supports 8K display resolutions. Qualcomm Adreno™ VPU 665 supports 8K@30fps video encode/8K@60fps video decode, H.264/H.265. Qualcomm Adreno™ GPU 730, supports OpenGL ES 3.2, Vulkan1.2 and OpenCL 1.2. Integrated with Qualcomm neural network processing unit Qualcomm® Hexagon™ Tensor Processor, AI computations can over 27 Tops.

SNM960 series module runs Android 12 operating system and the default onboard storage is 256GB UFS + 16GB LPDDR5. It supports WIFI 6E and BT5.2.

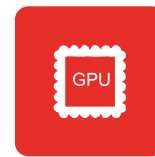
SNM960 series module integrates rich functional interfaces, including LCM, Display Port display interface, touch screen, camera\*, PCIe interface, USB interface, I2C interface, UART interface, SPI interface, etc. Products can be widely used in video conference systems, VR Cameras, intelligent robots, video surveillance, security surveillance, intelligent information gathering equipment, live streaming terminals and other products.

### Main Advantages

- ✓ Qualcomm 8-core Kryo™ 780 processor with max core frequency of 3.2GHz
- ✓ 27 Tops AI computations
- ✓ Support dual/three screen display
- ✓ 3 groups of ISP, 6 groups of 4-lane CSI interfaces
- ✓ Support 1 USB 3.1 Gen2
- ✓ Support 8K@30fps video encode or 8K@60fps decode
- ✓ Support PCIe interfaces



Qualcomm



Qualcomm

8-core Kryo™ 780 Adreno GPU 730



Android 12



8K

Video En/Decode



BT 5.2

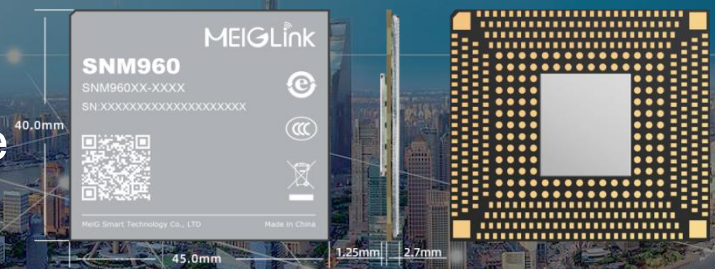


WIFI 6E

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### Band Frequency

Global:

WIFI : 802.11ax, 2 × 2 MIMO

BT : BT5.2

### Video En/Decode

- Decode : 4K@240fps or 8K@60fps  
H.264/H.265/VP9/VP8/MPEG-2
- Encode : 4K@120fps or 8K@30fps  
H.264/H.265/VP8
- Concurrency: 4K@60fps Decode + 4K@30fps  
Encode

### Display Port

- 2 x 4-lane MIPI-DSI  
5120 x 2880@60Hz  
3026 x 2160@120Hz
- 1 x DisplayPort v1.4 over USB Type-C  
1 x 8k@30Hz or 2x 4K@60Hz or 1x 4K@120Hz
- MIPI-DSI + DisplayPort  
1x 5120 x 2880@60Hz + 2x 3840 x 2160@60Hz (DSC)

### Camera Port

- 6 x 4-lane MIPI-CSI
- Qualcomm Spectra™ 680 ISP; 108MP@30fps  
ZSL

### Touch Panel Port

- I2C interface capacitive touch screen

### Audio Interface

- Digital interface:  
5 x IIS/TDM/PCM interface  
Support Audio over USB Type-C

### USB Interface

- 1 x USB 3.1 Gen2  
Support USB OTG, one USB support DisplayPort v1.4

### Other Interface

- PCIe Interface: 1 (2-lane Gen3)
- I2C Interface: 7 QUP + 4 Camera + 2 Sensor
- UART Interface: 3 (3support hardware flow control, the highest  
rate up to 4Mbps)
- SD Card Interface: 1 (support SD 3.0, 4-bit SDIO, dual-voltage)
- SPI Interface: 6 (1 x sensor)
- ADC Interface: 6
- PWM Interface: 2
- GPIO Interface: >=40
- PWRKEY: 1.8V, internal pull-up
- Reset: 1.8V, internal pull-up

### Antenna Interface

2 x Wi-Fi&BT antenna

### Outstanding Feature

- WLAN: WIFI 6E (2x2 MU MIMO, 802.11 ax)
- BT: BT 5.2
- 3 x 4K screen display
- USB 3.1
- 6 x camera interfaces
- 8K video en/decode capability

### General Feature

OS: Android 12

Storage:

- 256GB UFS + 16GB LPDDR5 (default)
- 128GB UFS + 16GB LPDDR5 (optional)
- 256GB UFS + 12GB LPDDR5 (optional)
- 128GB UFS + 12GB LPDDR5 (optional)

Work Temperate: -30°C ~ +75°C

Storage Temperate: -40°C ~ +90°C

Working Voltage: 3.5V~4.35V (typical value:  
3.8V)

Module Size: 40.0mm x 45.0mm x 2.7mm; LGA

### Certification

CCC\*

\* means in planning