

# MeiG-SNM950

## High Computations Smart Module

### Support Wi-Fi 6E & BT5.1



MeiG SNM950 series module is developed on the Qualcomm Snapdragon 800 series QCS8250 solution, which integrates Qualcomm 8-core Kryo™ 585 CPU (1\*Kyro Gold Prime core at 2.85GHz + 3\*Kyro Gold core at 2.4GHz + 4 Kryo Silver core at 1.8GHz) with 7nm process. With Qualcomm Adreno™ DPU 995, it supports 4K display resolutions. Qualcomm Adreno™ VPU 665 supports 4K@120fps video encode/4K@240fps video decode, H.264/H.265. Qualcomm Adreno™ GPU 650, supports OpenGL ES 3.2, Vulkan1.1 and OpenCL 2.0. Integrated with Qualcomm neural network processing unit NPU230, AI computations can reach 15 Tops.

SNM950 series module runs Android 10 operating system and the default onboard storage is 256GB UFS + 12GB LPDDR5. It supports WIFI 6E and BT5.1.

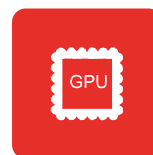
SNM950 series module integrates rich functional interfaces, including LCM, Display Port display interface, touch screen, camera, PCIe interface, USB interface, I2C interface, UART interface, SPI interface, etc. Products can be widely used in video conference systems, VR Cameras, intelligent robots, video surveillance, security surveillance, intelligent information gathering equipment, live streaming terminals and other products.

### Main Advantage:

- ✓ Qualcomm 8-core Kryo™ 585 processor with max core frequency of 2.85 GHz
- ✓ 15 Tops AI computations
- ✓ Support dual screen display
- ✓ 2 groups of ISP, 2 groups of 4-lane CSI interfaces\*
- ✓ Dual USB, one of which support DisplayPort
- ✓ Support 4K@120fps video encode or 4K@240fps decode
- ✓ Support 2 PCIe interfaces
- ✓ UFS memory supports up to 512G



Qualcomm 8-core Kryo™ 585



Qualcomm Adreno GPU 650



Android 10



4K/8K Video En/Decode



BT 5.1

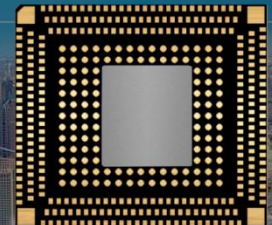


WIFI 6E

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## High Computations Smart Module

## Support Wi-Fi 6E & BT5.1



### Band Frequency

Global:

WIFI : 802.11ax, 2 × 2 MIMO

BT : BT5.1

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 :  
4K60 Decode + 4K30 Encode

### Display Port

- 2 x 4-lane MIPI-DSI  
DSI0 or DSI1: 2560 x 1600@60Hz  
DSI0+DSI1: 5040 x 2160@60Hz
- 1 x DisplayPort v1.4 over USB Type-C  
2 x 4k@60Hz or FHD@120Hz

### Camera Port

- 6 x 4-lane MIPI-CSI
- Qualcomm Spectra™ 480 ISP;  
25 + 25 or 64MP@30fps

### Touch Panel Port

- I2C interface capacitive touch screen

### Audio Interface

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

### USB Interface

- 2 x USB 3.1\*1 + USB 2.0 \*1  
Support USB OTG, one USB support DisplayPort v1.4

### Other Interface

- PCIe Interface: 2
- I2C Interface: 12(4 sensor and 4 CAM)
- UART Interface : 7(support four or two lines, including 1 Debug UART)
- SD Card Interface: 1 (support SD 3.0, 4-bit SDIO,dual-voltage)
- SPI Interface: 5
- ADC Interface: 4
- GPIO Interface: 57
- PWRKEY: 1.8V, internal pull-up
- LCD Interface: 2
- Camera Interface: 6(MIPI)
- Indicator Interface: 3
- I2S Interface: 5

### Antenna Interface

2 x Wi-Fi&BT antenna

### Outstanding Feature

- WLAN: WIFI 6E (2x2 MU MIMO, 802.11 ax)
- BT: BT 5.1
- 2 x 4K screen display
- USB 3.1\*1 + USB 2.0\*1
- 6 x camera interfaces
- 4K/8K video en/decode capability

### General Feature

Operating System: Android 10

Storage:

256GB UFS + 12GB LPDDR5 (default)

128GB UFS + 12GB LPDDR5 (optional)

128GB UFS + 8GB 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: 45.0mm x 40.0mm x 2.7mm; LGA

### Certification

CCC\*

\* means in planning