

# MeiG-SNM951

## High Computations Smart Module

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



MeiG Smart SNM951 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.

SNM951 series smart module runs Android 10 operating system and the default onboard storage is 256GB UFS + 12GB LPDDR5. It supports WIFI 6 and BT5.1.

SNM951 series smart 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™ 585 processor with maximum 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
- ✓ Support 2 groups of USB 3.1 interfaces, one of which supports Display-Port
- ✓ Support 4K@120fps video encode or 4K@240fps video decode
- ✓ Support 2 PCIe interfaces



Qualcomm 8 core Kryo™ 585



Adreno™ GPU 650



Android 10



4K Video En/Decode



BT 5.1

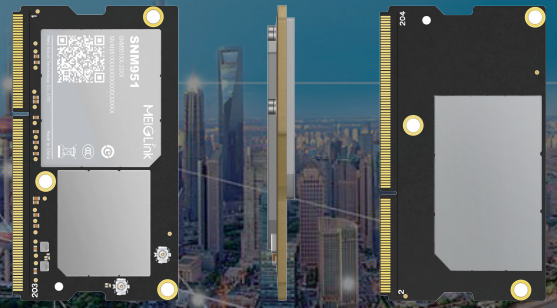


WIFI 6

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## Support Wi-Fi 6 & BT5.1



### Frequency Band

Global:

WiFi: 802.11ax, 2 x 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:  
4K@60fps Decode + 4K@30fps Encode

### Display Port

- One 4-lane DSI
- One DisplayPort v1.4w over USB Type-C

### Camera Port

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

### Touch Screen Port

- I2C interface capacitive touch screen

### Audio Interface

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

### USB Interface

- 2 x USB 3.1  
Support USB OTG, one of which supports DisplayPort v1.4

### General Interface

- PCIe Interface: 2
- I2C Interface: 3
- UART Interface: 3 (support hardware flow control, the highest rate up to 4Mbps)
- SD card Interface: 1 (support SD 3.0, 4-bit SDIO, dual-voltage)
- SPI Interface: 2
- I2S Interface: 1
- ADC Interface: 2
- PWN Interface: 2
- GPIO Interface: > 5
- PWRKEY: 1.8V, internal pull-up

### Antenna Interface

- Wi-Fi&BT antenna\*2

### Outstanding Features

- WLAN : WiFi 6(2x2 MU MIMO, 802.11 ax)
- Bluetooth: BT5.1
- 2 x 4K screen display
- 2 x USB 3.1
- 2 x camera ports

### General Feature

OS: Android 10

Memory:

256GB UFS + 12GB LPDDR5 (default)

128GB UFS + 8GB LPDDR5 (optional)

128GB UFS + 12GB LPDDR5 (optional)

Working Temperature: -25°C ~ +75°C

Storage Temperature: -40°C ~ +90°C

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

### Certification

CCC\*

\* means under development