

# MeiG-SNM970

## High Computations Smart Module

### Support Wi-Fi 7 & BT5.3



MeiG SNM970 series module is developed on the Qualcomm Snapdragon 800 series QCS8550(8 Gen 2) platform, which integrates Qualcomm 8-core Kryo™ CPU (1x Kryo Prime 3.2 GHz + 4x Kryo Gold 2.8 GHz + 3x Kryo Silver 2.0 GHz) with 4nm process. With Qualcomm Adreno™ DPU 1295, it supports 8K display resolutions. Qualcomm Adreno™ VPU 8550 supports 8K@30fps video encode/8K@60fps video decode, H.264/H.265. Qualcomm Adreno™ GPU 740, supports OpenGL ES 3.2, Vulkan1.2 and OpenCL 3.0. Integrated with Qualcomm neural network processing unit Qualcomm® Hexagon™ Tensor Processor, its computing power is up to 48 Tops.

SNM970 series module runs Android 13/Yocto Linux operating system and the default onboard storage is 256GB UFS + 16GB LPDDR5x. It supports WIFI 7 and BT5.3.

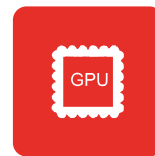
SNM970 series module integrates rich functional interfaces, including LCM, Display Port display interface, touch screen, camera\*, PCIe interface, USB interface, I2C interface, UART interface, SPI interface, etc. Products can be widely used in video conference systems, VR Cameras, intelligent robots, video surveillance, security surveillance, intelligent information gathering equipment, live streaming terminals and other products.

### Main Advantages

- ✓ Qualcomm 8-core Kryo™ processor with max core frequency of 3.2GHz
- ✓ High AI computations~48 Tops
- ✓ Android 13/Yocto Linux
- ✓ Support dual/three screen display
- ✓ 3 groups of ISP, 8 groups of 4-lane MIPI-CSI interfaces
- ✓ Support 1 USB 3.1 Gen2
- ✓ Support 8K@30fps video encode or 8K@60fps decode
- ✓ Support PCIe interfaces
- ✓ Long lifecycle, up to 2030



Qualcomm 8-core Kryo™



Qualcomm Adreno GPU 740



Android 13 Yocto Linux



8K Video En/Decode



BT 5.3

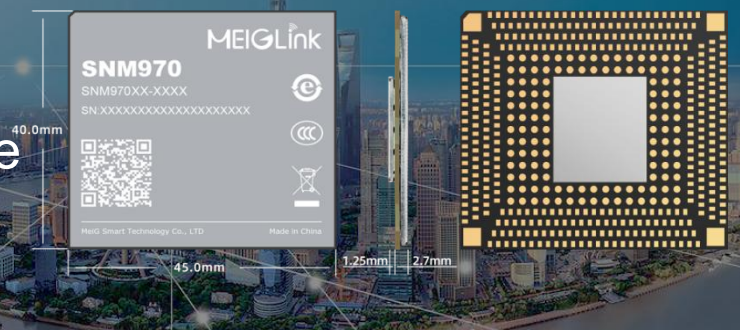


WIFI 7

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## High Computations Smart Module

## Support Wi-Fi 7 & BT 5.3



### Band Frequency

Global:

WIFI : WIFI 7, 2 × 2 MIMO

BT : BT5.3

### Video En/Decode

• Decode :

4K@240fps or 8K@60fps H.264/H.265/VP9

• Encode :

4K@120fps or 8K@30fps H.264/H.265

• Concurrency :

4K@60 Decode + 4K@60 Encode

### Display Port

• 2 x 4-lane MIPI-DSI

3480 × 2160@120Hz or 3360 × 1600@144Hz

• 1 x DisplayPort v1.4 with MST

1 x 8k@30Hz or 2x 4K@60Hz

• VDC-M (DSC Mode)

Internal panel and DSC v1.2

### Camera Port

• 8 x 4-lane MIPI-CSI

• Qualcomm Spectra™ 680  
ISP;

(36 M + 36 M + 36 M) @ 30 fps - triple camera

(64 M + 36 M) @ 30 fps - dual camera

108 M @ 30 fps - single cameras

### 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: 3 x I2C\_HUB0 +2 x SSC\_QUP+1 x QUP+ 4

• UART Interface: 3 (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: 5 (1 x sensor)

• ADC Interface: 2

• PWM Interface: 2

• GPIO Interface: >=35

### Antenna Interface

2 x Wi-Fi&BT antenna

### Outstanding Feature

• WLAN: WIFI 7(2x2 MU MIMO)

• BT: BT 5.3

• 3 x 4K screen display

• USB 3.1

• 8 x camera interfaces

• 8K video en/decode capability

• PMI

### General Feature

Operating System:

Android 13/Yocto Linux

Storage:

256GB UFS + 16GB LPDDR5x (default)

128GB UFS + 16GB LPDDR5x (optional)

128GB UFS + 8GB LPDDR5x (optional)

Work Temperate: -30°C ~ +75°C

Storage Temperate: -40°C ~ +90°C

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

Size: 40.0mm x 45.0mm x 2.7mm

Package: LGA

### Certification

CCC\*

\* means in planning