

CPU

- Cortex A7 1.0GHz
- 32KB I-Cache, 32KB D-Cache
- 256KB L2 Cache
- NEON
- FPU

NPU

- Neutron v2.0
- 4 TOPs@INT4
- 1TOPs@INT8
-
-

ISP

- Proton v2.0
- 5Mp@30fps
- 3A AF AWB AE
-
- AI-HDR
- AI-3DNR NR
- AI-RLTM
-
-
-
-
-
-
- DIS EIS

- H.264 HP/MP/BP Level 5.1
- H.265 MP Level 5.0
- H.264/H.265 I/P
- 5Mp@30fps
- H.264/H.265
- 5Mp@30fps+
- 720p@30fps +D1@30fps
- CBR/VBR/AVBR/CVBR/FIX QP/QPMAP
- 8
- ROI
- JPEG
- 4K@30fps
- 200Mbps
- H.264 HP/MP/BP Level 4.2
-
- 1080p@60fps
- I/P/B
- JPEG
- 1080p@60fps
- 100Mbps
- 12
- OSD
-
- 8
- bitmap



- 4+2Lane
- 2 sensor
- 2.5Gbps per lane
- 1 MIPI DSI
- 720p@60fps

DDR

- LPDDR4x
- 3200Mbps

SPI Flash

- SPI Nor Flash
- SPI Nand Flash

eMMC

- eMMC v4.41
- 2TB

Ethernet

- 1 Ethernet
- RGMII RMII
- TSO

USB

- 1 USB 2.0
- Host Device

- I2S
- Audio Codec
- I2C SPI Uart



- eMMC
- SPI Nor Flash
- SPI Nand Flash
- AES/DES/3DES
- SHA-1 / SHA-224 / SHA-256

- 0.8V
- LPDDR4x 1.1V / 0.6V
- IO 1.8V / 3.3V
- 8.6mm x9.0mm FC-CSP



AX620U