

AX650N		SoC
A55 CPU	72.0TOPs@INT4	
18.0TOPs@INT8	NPU	8K@ 30fps
ISP	H.264 H.265	VPU
AX650N /SPI Flash	64bit LPDDR4x	eMMC v5.1
1 USB3.0	MPI	2 Ethernet
2 USB2.0		2 HDMI 2.0b

AX650N

AX650N



CPU	ISP			
Cortex A55 1.7GHz 32KB ICache 32KB D-Cache NEON FPU	8K@30fps 2DOL 3A AF AWB AE AI-HDR AI-3DNR NR	H.264 HP/MP/BP Level v5.1 H.265 MP Level v5.0 H.264/H.265 I/P 8K @30fps H.264/H.265 7680*4320 @30fps+ 1080p@30fps JPEG 3840*2160@200fps CBR/VBR/AVBR/CVBR/FIXQ P/QPMAP 8 ROI 200Mbps	H.264 HP/MP/BP Level v5.2 H.265 MP Level v5.1 8K @60fps 32 1080p@30fps JPEG 3840*2160@120fps 300Mbps	OSD
NPU				
72.0TOPs @ INT4 18.0TOPs@INT8 MAU IVE				
DSP				
VDSP 32KB ICache 16KB D-Cache				



MIPI	DDR	Ethernet
4 sensor 2x4 4x2Lane 3.5Gbps	64bit LPDDR4/LPDDR4x 4266Mbps 32GB	2 Ethernet RGMII RMII
2 HDMI 2.0b BT.1120/BT.656 2 4K@60fps+1 1080p@60fps 16bit RGB	SPI Flash SPI Nor Flash SPI Nand Flash	1 USB 3.0 Host 2 USB 2.0 Device
LCD	eMMC eMMC v5.1 2TB	PCIe SATA 2 PCIe 2.0x2 4 SATA 3.0 RC/EP SATA PM



AES/DES/3DES SHA-1 / SHA-224 / SHA256	eMMC SPI Nor Flash SPI Nand Flash PCIe	0.8V LPDDR4(x) 1.1V / 0.6V IO 1.8V/3.3V
		16mm x16mm FC-CSP



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AX65ON Brief

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