

AIR6NO-C-MB NX 4×USB3.2-A YUAN

Card Size AI Edge with Multi AloT Expansion

Features

- · Powered by NVIDIA[®] Jetson Orin[™] NX Super up to 157 / 117 TOPS
- Business Card Size
- · 2×M.2, Gen 4×2 M Key / Gen 4×1 E Key
- 1×USB3.2 Gen2, 4×USB3.2 Gen1
- 1×Mini DisplayPort



Specifications

System							
	NVIDIA Jetson Orin™ NX	NVIDIA Jetson Orin™ NX	NVIDIA Jetson Orin™ Nano	NVIDIA Jetson Orin™ Nano			
SOM	16GB Super	8GB Super	8GB Super	4GB Super			
CPU	8-Core Arm® Cortex®-A78AE v8.2	6-Core Arm® Cortex®-A78AE v8.2	6 Caro Arm® Cartav® A70A5				
	64-Bit CPU 2MB L2 + 4MB L3	64-Bit CPU 2MB L2 + 4MB L3 64-Bit CPU 1.5MB L2 + 4MB L3		6-Core Arm [®] Cortex [®] -A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3			
GPU		512-core NVIDIA Ampere					
	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores		Architecture GPU	Architecture GPU			
			with 32 Tensor Cores	with 16 Tensor Cores			
AI Performance	157 TOPS	117 TOPS	67 TOPS	34 TOPS			
System Memory	16GB 128-bit LPDDR5	8GB 128-bit LPDDR5	8GB 128-bit LPDDR5	4GB 64-bit LPDDR5			
system memory	102.4GB/s	102.4GB/s	102 GB/s	51 GB/s			
Interface							
Storage	Supports External NVMe						
	1×Micro SD Card Slot						
Display Interface	1×Mini DP1.4						
Ethernet	1×RJ45 for 10/100/1000Mbps Ethernet (DHCP Client)						
Expansion Slot	1×M.2 2230 M Key PCIe Gen4×2 Slot (Nano: Gen3×2)						
	1×M.2 2230 E Key PCIe Gen4×1 Slot (Nano: Gen3×1)						
USB	1×USB3.2 Gen2 (Type-C)						
	4×USB3.2 Gen1 (Type-A)						
MIPI		8 MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card)					
	10 Pin Header						
	1×USB2.0						
	4×GPIO						
	1/120	1×I2C					
	6 Pin Wafer						
	1×UART (*)						
	4 Pin Header						
	5V / 3A						
Peripheral Communication							
Penpinerar communication	8 Pin Phoenix Connector						
	1×GPIO						
	1×RS232 (*)						
	1×12C						
	2×6 Pin Header						
	3×GPIO						
	1×R5485						
	1×12C						
	* Please select either RS232 of 8 Pin Phoenix Connector or UART of 6 Pin Wafer to use						
Misc. Features	Firmware Upgradable						
Development Environment							
JetPack	6.2 or Higher						
Environment							
Power Supply	DC input : 12~36V						
Power Consumption	TBA						
Operating Temperature	0~60°C with Airflow						
	-20~80 °C						
Storage Temperature							
Certification	CE, FCC						



SDK / Software

Video Feature						
SOM	NVIDIA Jetson Orin™ NX	NVIDIA Jetson Orin™ NX	NVIDIA Jetson Orin™ Nano	NVIDIA Jetson Orin™ Nano		
30101	16GB Super	8GB Super	8GB Super	4GB Super		
Video Encode	AV1 (UHP)					
	1×4K60 3×4K30 6×1080p6	60 12×1080p30				
	H.265 (UHP) 1×4K60 3×4K30 6×1080p60 12×1080p30		1080p30 supported by 1-2 CPU cores			
	H.264 (UHP)					
	1×4K60 2×4K30 5×1080p6	60 11×1080p30				
	AV1 (Main Profile)	· ·	AV1 (Main Profile)			
Video Decode	1×8K30 2×4K60 4×4K30 10×1080p60 20×1080p30		1×4K60 2×4K30 5×1080p60 10×1080p30			
	H.265 (Main, Main10)		H.265 (Main, Main10)			
	1×8K30 2×4K60 4×4K30 9×1080p60 18×1080p30		1×4K60 2×4K30 5×1080p60 11×1080p30			
	H.264 (Baseline, Main, High)		H.264 (Baseline, Main, High) 1×4K30 3×1080p60 7×1080p30			
	1×4K60 2×4K30 5×1080p60 11×1080p30 VP9 (Profile 0, Profile 2)		VP9 (Profile 0, Profile 2)			
	1×4K60 3×4K30 7×1080p60 15×1080p30		1×4K60 2×4K30 5×1080p60 10×1080p30			
SDK				· · ·		
	Capture					
	High Performance Renderer					
	Image Snapshot					
	De-interlace, Alpha Blending Engine					
	Auto Signal Detection					
	2D/3D Video, Audio and VANC Streams Capture Record Record					
	Encrypt / Sync / Clone / Recording					
		Time-Shifting / Rewind / Pre-Event / Recording				
QCAP	Multi-Streams (3D) Recording					
	Animation Transition Effect					
	Video Cropping, Scaling and Alpha Blending Engine					
	Stream					
	2D/3D Universal Stream Client					
	2D/3D Multi-Streams Stream Server RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*)					
	Animation Transition Effect					
	Video Cropping, Scaling and A	Alpha Blending Engine				
	*Separate License Required					
	AI SDK Integrated Multiple Algo	rithms and Deep-Learning Models in	Various Fields of Applications			
	Face Recognition	-				
00550		Objects Detection				
QDEEP	Objects Segment Optical Character Recognition					
	Optical Character Recognition License Plate Recognition					
	Customizable Video AI Functions Upon Request					
Software (Optional)						
Xtreamer	Web Based User Interface		The second se	and the second s		
	Encode / Decode			Optimization Optimization<		
	AV1, H.26X					
	Color Format Adjust					
	444 / 422 / 420, 10Bit / 8Bit 5	Select				
	Record MP4, TS					
	· · · · ·			Hereina Maria		
		Stream / Network RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*)				
	*Separate License Required			A CONTRACTOR OF A CONTRACTOR O		
Software (Optional)						
	Capture					
	Auto Signal Detection					
	Deinterlace, OSD, Color Adjustment					
SCP	Image Snapshot					
	Animation Transform Effect for PGM					
	Record					
	AV1, H.26X					
	MP4, TS Multi-Stream Recording					
	Multi-Stream Recording Schedule Recording					
	Stream III III III III III III III III III					
	Multi-Streams Stream Server					
	Nulti-Streams Stream Server					
	RTSP, RTMP, HLS, SRT, TS, We					



Mechanical

- Dimension: 90mm × 55mm
- \cdot Weight: 175g (With SOM and Fan)

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