AIR6NO-C-MB NX 4×HDMI

YUAN

Card Size AI Edge with Multi AIoT Expansion

Features

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



Specifications

System						
SOM	NVIDIA Jetson Orin™ NX	NVIDIA Jetson Orin™ NX	NVIDIA Jetson Orin™ Nano	NVIDIA Jetson Orin™ Nano		
	16GB Super	8GB Super	8GB Super	4GB Super		
CPU	8-Core Arm® Cortex®-A78AE v8.2 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3 64-Bit CPU 1.5MB L2 + 4MB L3 64-Bit CPU 1.5MB L2 + 4MB L3		2 64-Bit CPU 1.5MB L2 + 4MB L3			
			1024-core NVIDIA Ampere	512-core NVIDIA Ampere		
GPU	1024-Core NVIDIA Ampere Architec	ture GPU with 32 Tensor Cores	Architecture GPU	Architecture GPU		
			with 32 Tensor Cores	with 16 Tensor Cores		
Al 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					
Storage	1×Micro SD Card Slot					
Display Interface	1×Mini DP1.4					
Ethernet	1×RJ45 for 10/100/1000Mbps Ethe	1×RJ45 for 10/100/1000Mbps Ethernet (DHCP Client)				
Expansion Slot	1×M.2 2230 M Key PCle Gen4×2 Slot (Nano: Gen3×2)					
	1×M.2 2230 E Key PCle Gen4×1 Slot (Nano: Gen3×1)					
USB	1×USB3.2 Gen2 (Type-C)					
MIPI	8 MIPI CSI-2 Lanes (D-PHY 2.1, Sup	port MIPI Camera, Capture Card)				
	10 Pin Header					
	1×USB2.0					
	4×GPIO					
	1×I2C					
	C Dia Wafan					
	6 Pin Wafer					
	1×UART (*)					
	4 Pin Header					
	5V / 3A					
B : 1 10 : .:						
Peripheral Communication	8 Pin Phoenix Connector					
	1×GPIO					
	1×RS232 (*)					
	1×12C					
	2v6 Din Hooder					
	2×6 Pin Header 3×GPIO					
	1×RS485					
	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					
Storage Temperature	-20~80 °C					
Certification	CE, FCC					
	, ,					

Key Points

Video Feature		
Input	4×HDMI	

SDK / Software

Video Feature					
MOS	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	
	AV1(UHP)				
	1×4K60 3×4K30 6×1080p60 12×1080p30				
Video Encode	H.265 (UHP)		1080p30 supported by 1-2 CPU cores		
Video Efficade	1×4K60 3×4K30 6×1080p60 12×1080p30		1000p30 3upported by 1 2 cr 0 cores		
	H.264 (UHP)				
	1×4K60 2×4K30 5×1080p60 11×1080p30				
	AV1 (Main Profile)		AV1 (Main Profile)		
	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)		
Video Decode	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)		
	1×4K60 2×4K30 5×1080p60 11×1080p30		1×4K30 3×1080p60 7×1080p30		
	VP9 (Profile 0, Profile 2)			VP9 (Profile 0, Profile 2)	
	1×4K60 3×4K30 7×1080p60	15×1080p30	1×4K60 2×4K30 5×1080p60	0 2×4K30 5×1080p60 10×1080p30	
SDK	T.				
	Capture				
	High Performance Renderer				
	Image Snapshot				
	De-interlace, Alpha Blending Engine				
	Auto Signal Detection	t			
	2D/3D Video, Audio and VANC Streams Capture				
	Record				
	Encrypt / Sync / Clone / Recording Time Shifting / Devind / Dee Front / Recording				
QCAP	Time-Shifting / Rewind / Pre-Event / Recording				
QCAI	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 Alpha Blending Engine				
	*Separate License Required				
	AI SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications				
	Face Recognition				
	Objects Detection				
QDEEP	Objects Segment				
	Optical Character Recognition				
	License Plate Recognition				
2.5 (2.1)	Customizable Video Al Functions	s Upon Request			
Software (Optional)	T				
	Web Based User Interface		10 submer		
	Encode / Decode				
	AV1, H.26X				
Xtreamer	Color Format Adjust				
	444 / 422 / 420, 10Bit / 8Bit Sele	tt.			
	Record		To the same of the	Minus and a second	
	IVIP4, IS				
	Stream / Network				
	RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*)				
	*Separate License Required				

Software (Optional)		
SCP	Capture Auto Signal Detection Deinterlace, OSD, Color Adjustment Image Snapshot Animation Transform Effect for PGM Record AV1, H.26X MP4, TS Multi-Stream Recording Schedule Recording Stream Multi-Streams Stream Server RTSP, RTMP, HLS, SRT, TS, WebRTC, Full NDI (*), NDI-HX(*) * Separate License Required	

Mechanical

· Dimension: 90mm × 55mm

· Weight: 185g (With SOM and Fan)

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