# AIR6NO-C-MB NX HDMI21

YUAN

# AI Edge for 4K60 4:4:4

#### **Features**

- · Powered by NVIDIA® Jetson Orin™ NX Super up to 157 / 117 TOPS
- · Business Card Size
- · 1×HDMI2.1 In & Loop
- · 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				
JOIN	16GB Super	8GB Super	8GB Super	4GB Super				
CPU	8-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 2MB L2 + 4MB L3	6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3					
			1024-core NVIDIA Ampere	512-core NVIDIA Ampere				
GPU	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores		Architecture GPU	Architecture GPU				
		, p		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				
	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 Ethernet (DHCP Client)							
Expansion Slot	1×M.2 2230 M Key PCie Gen4×2 Slot ( Nano: Gen3×2 )							
Expansion sioc	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, Support MIPI Camera, Capture Card )							
	10 Pin Header							
	1×USB2.0							
	4×GPIO							
	1×I2C							
	6 Din Wafor							
	6 Pin Wafer 1×UART (*)							
	IXUARI (*)							
	4 Pin Header							
	5V/3A							
Peripheral Communication								
Tempheral communication	8 Pin Phoenix Connector							
	1×GPIO							
	1×RS232 (*)							
	1×I2C							
	2×6 Pin Header							
	3×GPIO							
	1×RS485							
	1×I2C							
	* 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	51 111 <sub>0</sub> 1101	0.2 or riighter						
Power Supply	DC input : 12~36V							
Power Consumption	TBA							
Operating Temperature	0~60 C with Airflow							
Storage Temperature	-20~80°C							
Certification	CE, FCC							
ceranication	CL, 1CC							

## **Key Points**

Video Feature				
Input	1×HDMI2.1			
Output	1×HDMI2.1 ( Loop )			

## SDK / Software

Video Feature						
SOM	NVIDIA Jetson Orin™ NX	NVIDIA Jetson Orin™ NX	NVIDIA Jetson Orin™ Nano	NVIDIA Jetson Orin™ Nano		
30171	16GB Super	8GB Super	8GB Super	4GB Super		
Video Encode	AV1 ( UHP )					
	1×4K60   3×4K30   6×1080p60   12×1080p30					
	H.265 ( UHP )		1080p30 supported by 1-2 CPU c	ores		
	1×4K60   3×4K30   6×1080p60   12×1080p30					
	H.264 ( UHP )					
	1×4K60   2×4K30   5×1080p60   11×1080p30					
Video Decode	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 )			
	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		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					
	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 Alpha Blending Engine					
	*Separate License Required					
	AI SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications					
	Face Recognition					
ODEED	Objects Detection					
QDEEP	Objects Segment Optical Character Recognition					
	Optical Character Recognition					
	License Plate Recognition					
Coffee (Oation I)	Customizable Video AI Functions	opon kequest				
Software (Optional)						
	Web Based User Interface		Canadana Canadana	The state of the s		
Xtreamer	Encode / Decode					
	AV1, H.26X					
	Color Format Adjust					
	444 / 422 / 420, 10Bit / 8Bit Select					
	Record		No tener	* Street, and a street		
	MP4, TS					
	Stream / Network					
	RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*)					
	KISI, KIIVII, IILS, SKI, IS, WCDKI	C. NDI-HX ( ), Full NDI ( )	Sales of Control of Co	The state of the s		

## Mechanical

 $\cdot$  Dimension: 90mm × 55mm

 $\cdot$  Weight: 200g ( With SOM and Fan )

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