AIR6NO-C-MB NX 12G-SDI QL YUAN

Al Edge for 12G-SDI, 1×4K60 / 2×4K30 / 4×HD60

Features

- Powered by NVIDIA® Jetson Orin™ NX Super up to 157 / 117 TOPS
- · Business Card Size
- · 1×12G-SDI | 2×6G-SDI | 4×3G-SDI In
- · Single-Link, Dual-Link, Quad-Link Support
- · 1×USB3.2 Gen2
- · 1×Mini DisplayPort



Specifications

System						
SOM	NVIDIA Jetson Orin™ NX 16GB Super	NVIDIA Jetson Orin™ NX 8GB Super	NVIDIA Jetson Orin™ Nano 8GB Super	NVIDIA Jetson Orin™ Nano 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			
GPU	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores		1024-core NVIDIA Ampere Architecture GPU with 32 Tensor Cores	512-core NVIDIA Ampere Architecture GPU with 16 Tensor Cores		
Al Performance	157 TOPS	117 TOPS	67 TOPS	34 TOPS		
System Memory	16GB 128-bit LPDDR5 102.4GB/s	8GB 128-bit LPDDR5 102.4GB/s	8GB 128-bit LPDDR5 102 GB/s	4GB 64-bit LPDDR5 51 GB/s		
Interface		202.1024	1 -0- 0-/0	1 0 0 0 0 0		
Storage	Supports External NVMe					
Display Interface	1×Micro SD Card Slot lay Interface 1×Mini DP1.4					
Ethernet	1×RJ45 for 10/100/1000Mbps Ethernet (DHCP Client)					
Edicine	1×N.2 2230 M Key PCIe Gen4×2 Slot (Nano: Gen3×2) 1×M.2 2230 E Key PCIe Gen4×1 Slot (Nano: Gen3×1)					
Expansion Slot						
USB	1×USB3.2 Gen2 (Type-C)					
MIPI	8 MIPI CSI-2 Lanes (D-PHY 2.1, Sup	port MIPI Camera, Capture Card)				
Peripheral Communication	10 Pin Header 1×USB2.0 4×GPIO 1×I2C 6 Pin Wafer 1×UART (*) 4 Pin Header 5V / 3A 8 Pin Phoenix Connector 1×GPIO 1×RS232 (*) 1×I2C 2×6 Pin Header 3×GPIO 1×RS485 1×I2C					
Misc. Features	* Please select either RS232 of 8 Pin Phoenix Connector or UART of 6 Pin Wafer to use					
Development Environment	I minware opgraudule	Firmware Upgradable				
JetPack	6.2 or Higher					
Environment	U.2 OI TIIgrici					
Power Supply	DC input : 12~36V					
Power Consumption	TBA					
Operating Temperature	0~60 C with Airflow					
Storage Temperature	-20~80°C					
Certification	CE, FCC					
CCI direction	02,700					

Key Points

Video Feature	
Input	1×12G-SDI 1×Quad-Link 3G-SDI 4×3G-SDI

SDK / Software

Video Feature						
	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 F-				
	1×4K60 3×4K30 6×1080p60 12×1080p30		1080p30 supported by 1-2 CPU cores			
	H.265 (UHP)					
Video Encode	1×4K60 3×4K30 6×1080p60 12×1080p30					
	H.264 (UHP)					
	1×4K60 2×4K30 5×1080p60 11×1080p30					
	AV1 (Main Profile)		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)	H.265 (Main, Main10)		
	1×8K30 2×4K60 4×4K30 9×1080p60 18×1080p30		1×4K60 2×4K30 5×1080p60 11×1080p30			
Video Decode	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 10×1080p30			
SDK						
	Capture					
	High Performance Renderer					
	Image Snapshot	Image Snapshot				
	De-interlace, Alpha Blending Er	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-Ev	ent / 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						
	Al SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications					
	Face Recognition Objects Detection					
QDEEP	Objects Detection Objects Sogment					
QUEEP	Objects Segment Optical Character Recognition					
	License Plate Recognition					
	Customizable Video Al Functions Upon Request					
Software (Optional)	castoffizable video / ii i difetio	is opon nequest				
Software (Optional)	Web Based User Interface					
				Table State		
	Encode / Decode					
	AV1, H.26X Color Format Adjust					
	Color Format Adjust 444 / 422 / 420 108it / 88it Select					
Xtreamer	444 / 422 / 420, 10Bit / 8Bit Select Record					
	MP4, TS		NOT HORSE	The second secon		
	· ·	WIFH, 13				
	Stream / Network					
	RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*)					
	*Separate License Required					

Mechanical

- Dimension: 90mm \times 55mm

 \cdot Weight: 205g (With SOM and Fan)

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