AIR6NO-C-MB NX 4×GMSL2



Card Size AI Edge with Multi AloT Expansion

Features

- Powered by NVIDIA® Jetson Orin™ NX up to 100 / 70 TOPS
- Business Card Size (90mm×55mm)
- 4×GMSL2 In
- 1×CAN Bus
- 2×M.2, Gen 4×2 M Key / Gen 4×1 E Key
- 1×USB3.2 Gen2
- 1×Mini DisplayPort





Specifications

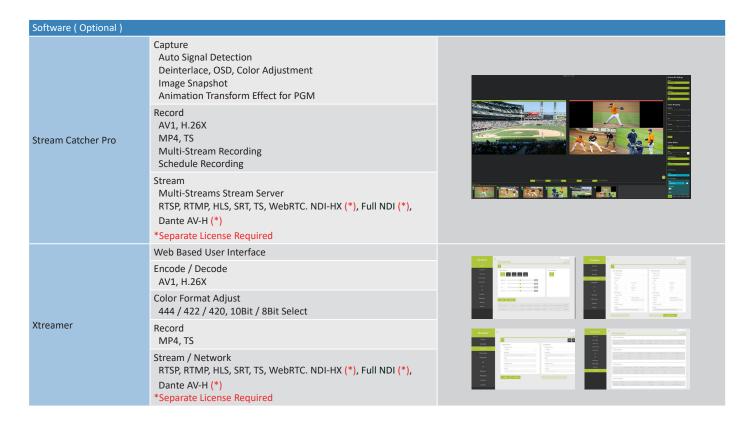
Specifications			
System			
CPU	NVIDIA Jetson Orin™ NX 8GB 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	NVIDIA Jetson Orin™ NX 16GB 8-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 2MB L2 + 4MB L3	
GPU	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores		
Al Performance	NVIDIA Jetson Orin™ NX 8GB 70 TOPS	NVIDIA Jetson Orin™ NX 16GB 100 TOPS	
System Memory	NVIDIA Jetson Orin™ NX 8GB 8GB LPDDR5	NVIDIA Jetson Orin™ NX 16GB 16GB LPDDR5	
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	M.2 1×M.2 2230 M Key PCIe Gen4×2 Slot 1×M.2 2230 E Key PCIe Gen4×1 Slot		
USB	1×USB3.2 Gen2 (Type-A) 1×USB3.2 Gen2 (Type-C)		
MIPI	Default: 2×4MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) Option:		
Peripheral Communication	4×2MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) 14 Pin Header 1×USB2.0 4×GPIO 1×UART 1×I2C 3 Pin Header 1×UART 2×5 Pin Header 3×GPIO 1×I2C 8 Pin Phoenix Connector 1×RS232 1×I2C 1×GPIO		
Misc. Features	Firmware Upgradable		

Key Points

Video Feature	
Video Input	4×GMSL2

Add-On Cards / SDK / Software

Video Feature		
	AV1 (UHP)	
Video Encode	1×4K60 3×4K30 6×1080p60 12×1080p30	
	H.265 (UHP)	
	1×4K60 3×4K30 6×1080p60 12×1080p30	
	H.264 (UHP)	
	1×4K60 2×4K30 5×1080p60 11×1080p30	
	AV1 (Main Profile)	
	1×8K30 2×4K60 4×4K30 9×1080p60 20×1080p30	
	H.265 (Main, Main10)	
Video Decode	1×8K30 2×4K60 4×4K30 9×1080p60 18×1080p30	
	H.264 (Baseline, Main, High)	
	1×4K60 2×4K30 5×1080p60 11×1080p30	
	VP9 (Profile 0, Profile 2)	
CDV	1×4K60 3×4K30 7×1080p60 15×1080p30	
SDK	Continue	
	Capture High Performance Renderer	
	Image Snapshot	
	Deinterlace, Alpha Blending Engine	
	Auto Signal Detection	
	2D/3D Video, Audio and VANC Streams Capture	
	Record	
	Encrypt / Sync / Clone / Recording	
OCAD	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 (*), Dante AV-H (*)	
	Animation Transition Effect	
	Video Cropping, Scaling and Alpha Blending Engine	
	*Separate License Required ALSDK Integrated Multiple Algorithms and Deep Learning Models in Various Fields of Applications	
QDEEP	AI SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications Face Recognition	
	Objects Detection	
	Objects Segment	
	Optical Character Recognition License Plate Recognition	
	Customizable Video Al Functions Upon Request	

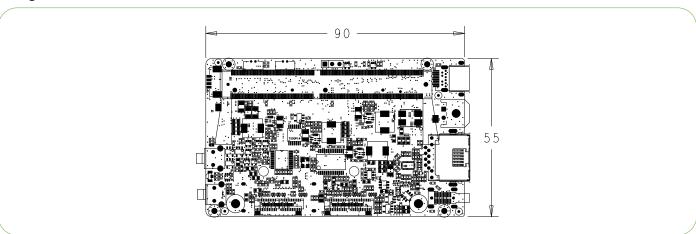


Environment

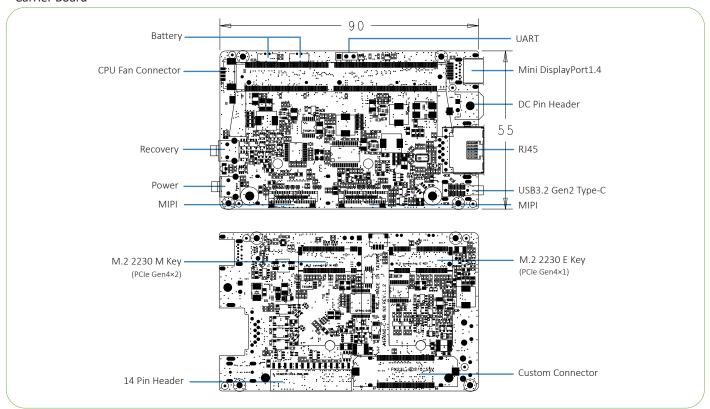
Development Environment		
OS	Ubuntu: 20.04	
Kernel	5.10.104-tegra or Higher	
BSP	Linux for Tegra(L4T) R35.3.1 or Higher	
SDK	JetPack 5.1.1 or Higher	
Environment		
Power Supply	DC input : 24V	
Power Consumption	ТВА	
Operating Temperature	Standard Version: 0~60 °C with Airflow	
Storage Temperature	-20~80 °C	

Mechanical

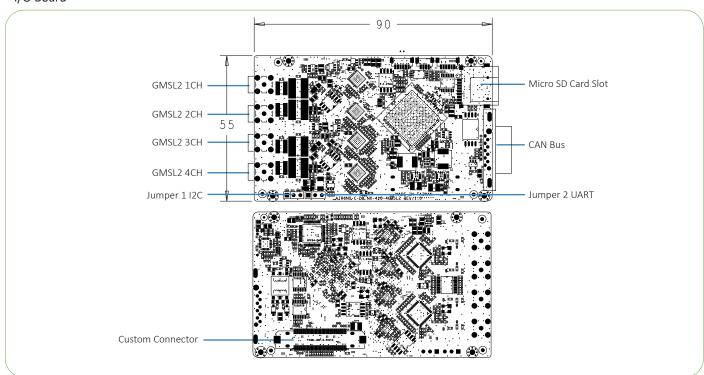
- Dimension of main Board: 90mm×55mm
- Weight: TBA

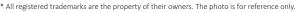


• Carrier Board



• I/O Board





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