AIR6NO-C-MB NX 2×GIGE



AI Edge for 4K30 2×GIGE with PoE

Features

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





Specifications

System					
СРИ	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 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				
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-C)				
MIPI	Default: 2×4MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) Option: 4×2MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card)				
Peripheral Communication	14 Pin Header 1×USB2.0 4×GPIO 1×UART 1×I2C 3 Pin Header 1×UART				
Misc. Features	Firmware Upgradable				

Key Points

Video Feature	
Video Input	2×GIGE (PSE Support with Power Board)

Add-On Cards / SDK / Software

Video Feature	
Video Encode	AV1 (UHP) 1×4K60 3×4K30 6×1080p60 12×1080p30 H.265 (UHP) 1×4K60 3×4K30 6×1080p60 12×1080p30 H.264 (UHP)
Video Decode	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) 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) 1×4K60 3×4K30 7×1080p60 15×1080p30
SDK	
QCAP	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 Time-Shifting / Rewind / Pre-Event / Recording 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
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 AI Functions Upon Request

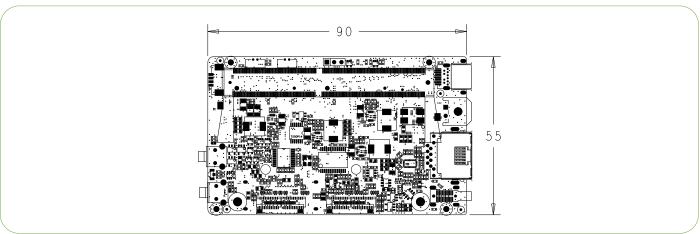


Environment

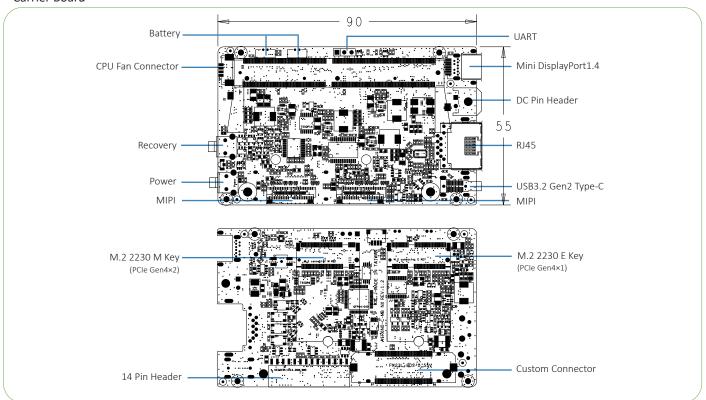
Development Environment				
OS	Ubuntu: 20.04			
Kernel	5.10.104-tegra or Higher			
BSP	Linux for Tegra(L4T) R35.3.1 or Higher			
SDK	JetPack 5.1.1 or Higher			
Environment				
Power Supply	DC Input : 48V PoE Support			
Power Consumption	TBA			
Operating Temperature	Standard Version: 0~60 °C with Airflow			
Storage Temperature	-20~80°C			

Mechanical

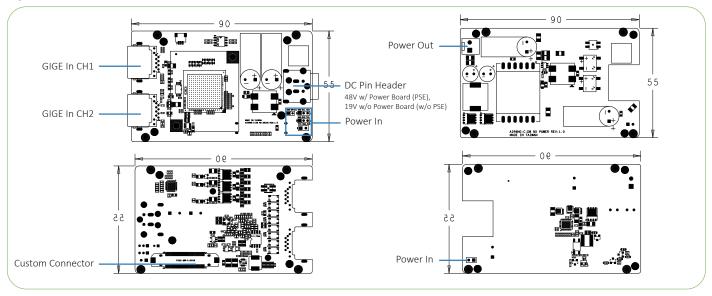
- Dimension of main Board: 90mm×55mm
- Weight: TBA

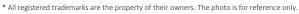


• Carrier Board



• I/O Board





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