AIR6NO-C-MB NX 4×TVI



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×TVI In
- 2×M.2, Gen 4×2 M Key / Gen 4×1 E Key
- 1×USB3.2 Gen2
- 1×Mini DisplayPort





Specifications

PPU A PROPOSITION NA SGB POTON	Specifications		
CPU 1.5MB L2 + 4MB L3 2 4 MB L3 2 4 MB L3 2 4 MB L3 2 4 MB L3 4 MB	System		
NVIDIA Jetson Orin™ NX 8GB 70 TOPS System Memory NYIDIA Jetson Orin™ NX 8GB 70 TOPS System Memory NYIDIA Jetson Orin™ NX 8GB 8GB LPDDR5 NUPDIA Jetson Orin™ NX 16GB 8GB LPDDR5 NUPDIA Jetson Orin™ NX 16GB 8GB LPDDR5 NUPDIA Jetson Orin™ NX 16GB 16GB LPDDR5 NUPDIA Supports External NVMe 1xMicro SD Card Slot Display Interface 1xMicro SD Card Slot Display Interface 1xMicro SD Card Slot Display Interface 1xMirio PD.1.4 Ethernet DHCP Client 1xM.2 2230 M Key PCle Gen4×2 Slot 1xM.2 2230 M Key PCle Gen4×2 Slot 1xM.2 2230 E Key PCle Gen4×1 Slot 1xM.2 2230 E Key PCle Gen4×2 Slot 1xM.2 2230 E Key PCle Gen4×1 Slot 1xM.2 2230 E Key PCle Gen4×2 Slot 1xM.2	CPU	6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU	8-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU
No TOPS NO T	GPU	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Core	es
Number N	Al Performance		
Storage Supports External NVMe 1/Micro SD Card Slot Display Interface 1xMicro SD Card Slot Ethernet 1xR45 for 10/100/1000Mbps Ethernet DHCP Client 1xM.2 2230 M Key PCle Gen4x2 Slot 1xM.2 2230 M Key PCle Gen4x1 Slot LSB 1xUSB3.2 Gen2 (Type-A) 1xUSB3.2 Gen2 (Type-C) Default: 2x4MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) MIPI Option: 4x2MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) Peripheral Communication 1xUSB3.2 Gen2 (Type-C) 1xUSB3.2 Gen3 (Type-C) 1xUSB	System Memory		
Storage Stor	Interface		
State Stat	Storage		
Expansion Slot M.2 Expansion Slot M.2 Expansion Slot M.2 Expansion Slot M.2 L×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) 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) 14 Pin Header 1×USB3.0 4×GPIO 1×UART 1×IZC 3 Pin Header 1×UART 1×IZC 3 Pin Header 1×UART 1×IZC 8 Pin Phoenix Connector 1×R5232 1×IZC 1×GPIO	Display Interface	1×Mini DP1.4	
Expansion Slot 1xM.2 2230 K Key PCle Gen4x2 Slot 1xM.5 2230 E Key PCle Gen4x1 Slot USB 1xUSB3.2 Gen2 (Type-C) Default: 2x4MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) Option: 4x2MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) 4xPMIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) 4xPMIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) 4xGPIO 1xUSB2.0 4xGPIO 1xUART 1x12C 2x6 Pin Header 3xGPIO 1xRS485 1x12C 8 Pin Phoenix Connector 1xRS232 1x12C 1xGPIO	Ethernet	· ·	
Default: 2x4MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card)	Expansion Slot	1×M.2 2230 M Key PCIe Gen4×2 Slot	
MIPI 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) 14 Pin Header 1*USB2.0 4*CPIO 1*UART 1*I2C 3 Pin Header 1*UART 2*6 Pin Header 1*UART 2*6 Pin Header 1*UART 2*6 Pin Header 1*I2C 8 Pin Phoenix Connector 1*S232 1*I2C 1*GPIO	USB		
1×USB2.0	MIPI	2×4MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture Card) Option:	
Misc. Features Firmware Upgradable	Peripheral Communication	14 Pin Header 1×USB2.0 4×GPIO 1×UART 1×I2C 3 Pin Header 1×UART 2×6 Pin Header 3×GPIO 1×RS485 1×I2C 8 Pin Phoenix Connector 1×RS232 1×I2C	
	Misc. Features	Firmware Upgradable	

Key Points

Video Feature	
Video Input	4×TVI

Add-On Cards / SDK / Software

Video Feature	
	AV1 (UHP)
V	1×4K60 3×4K30 6×1080p60 12×1080p30
	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)
	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)
	1×4K60 3×4K30 7×1080p60 15×1080p30
SDK	a maria maria acceptanta accepta
	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
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
	AI SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications
QDEEP	Face Recognition
	Objects Detection
	Objects Segment Optical Character Recognition
	License Plate Recognition
	Customizable Video AI Functions Upon Request

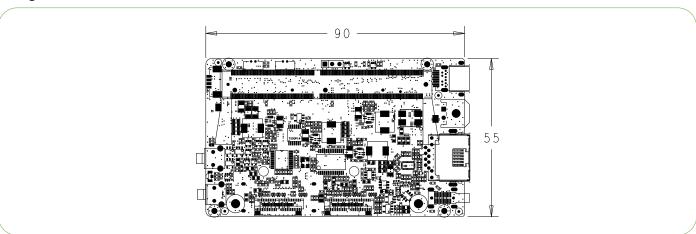


Environment

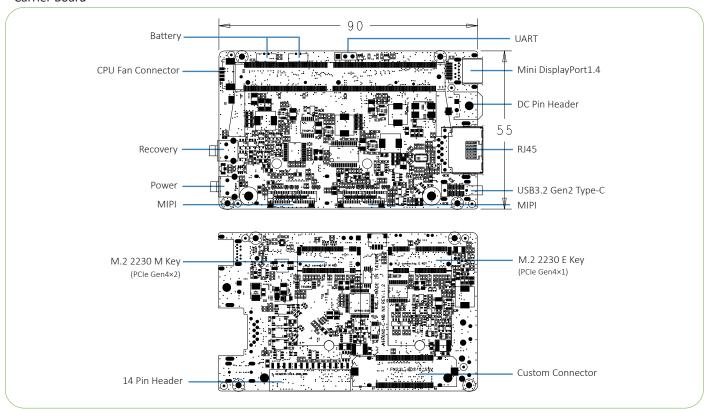
Development Environment		
OS	Ubuntu: 20.04	
Kernel	5.10.104-tegra or Higher	
BSP	Linux for Tegra(L4T) R35.3.1 or Higher	
SDK	JetPack 5.1.1 or Higher	
Environment		
Power Supply	DC input : 24V	
Power Consumption	ТВА	
Operating Temperature	Standard Version: 0~60 °C with Airflow	
Storage Temperature	-20~80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

Mechanical

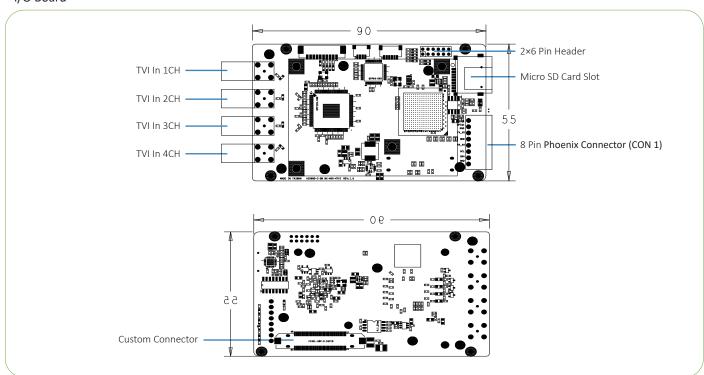
- Dimension of main Board: 90mm×55mm
- Weight: TBA



• Carrier Board



• I/O Board





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