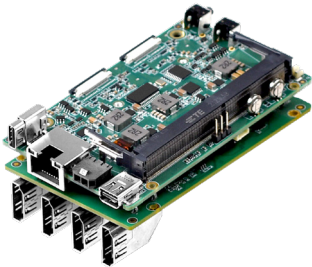


AIR6N0-C-MB NX 4×HDMI

AI Edge for 4K60

Features

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



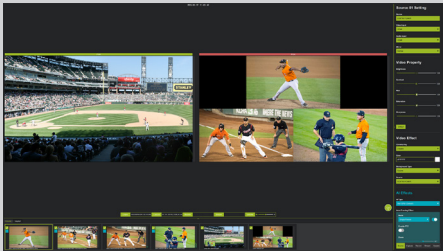
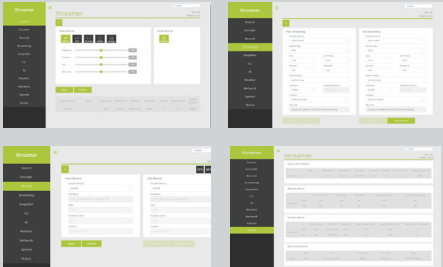
Specifications

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	
AI 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-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 2×6 Pin Header 3×GPIO 1×RS485 1×I2C 8 Pin Phoenix Connector 1×RS232 1×I2C 1×GPIO	
Misc. Features	Firmware Upgradable	

Key Points

Video Feature	
Video Input	4×HDMI

Add-On Cards / SDK / Software

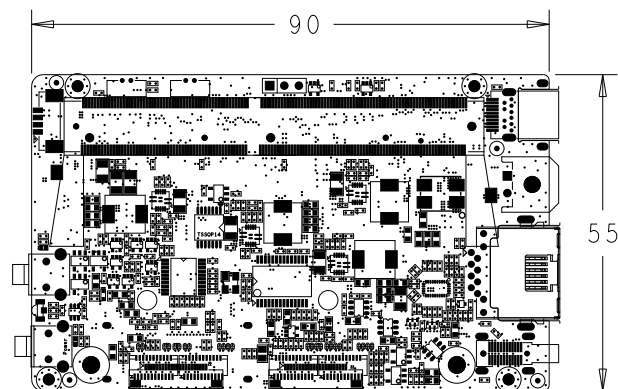
Video Feature		
Video Encode	AV1 (UHP)	
	1×4K60 3×4K30 6×1080p60 12×1080p30	
	H.265 (UHP)	
	1×4K60 3×4K30 6×1080p60 12×1080p30	
Video Decode	H.264 (UHP)	
	1×4K60 2×4K30 5×1080p60 11×1080p30	
	AV1 (Main Profile)	
	1×8K30 2×4K60 4×4K30 9×1080p60 20×1080p30	
	H.265 (Main, Main10)	
	1×8K30 2×4K60 4×4K30 9×1080p60 18×1080p30	
Video Decode	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	
QCAP	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	
Software (Optional)		
Stream Catcher Pro	Capture	
	Auto Signal Detection	
	Deinterlace, OSD, Color Adjustment	
	Image Snapshot	
	Animation Transform Effect for PGM	
	Record	
	AV1, H.26X	
	MP4, TS	
	Multi-Stream Recording	
	Schedule Recording	
Stream Catcher Pro	Stream	
	Multi-Streams Stream Server	
	RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*), Dante AV-H (*)	
	*Separate License Required	
Xtreamer	Web Based User Interface	
	Encode / Decode	
	AV1, H.26X	
	Color Format Adjust	
	444 / 422 / 420, 10Bit / 8Bit Select	
	Record	
	MP4, TS	
	Stream / Network	
	RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*), Dante AV-H (*)	
	*Separate License Required	
		
		

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 : 9~24V
Power Consumption	TBA
Operating Temperature	Standard Version: 0~60 ° C with Airflow
Storage Temperature	-20~80 ° C

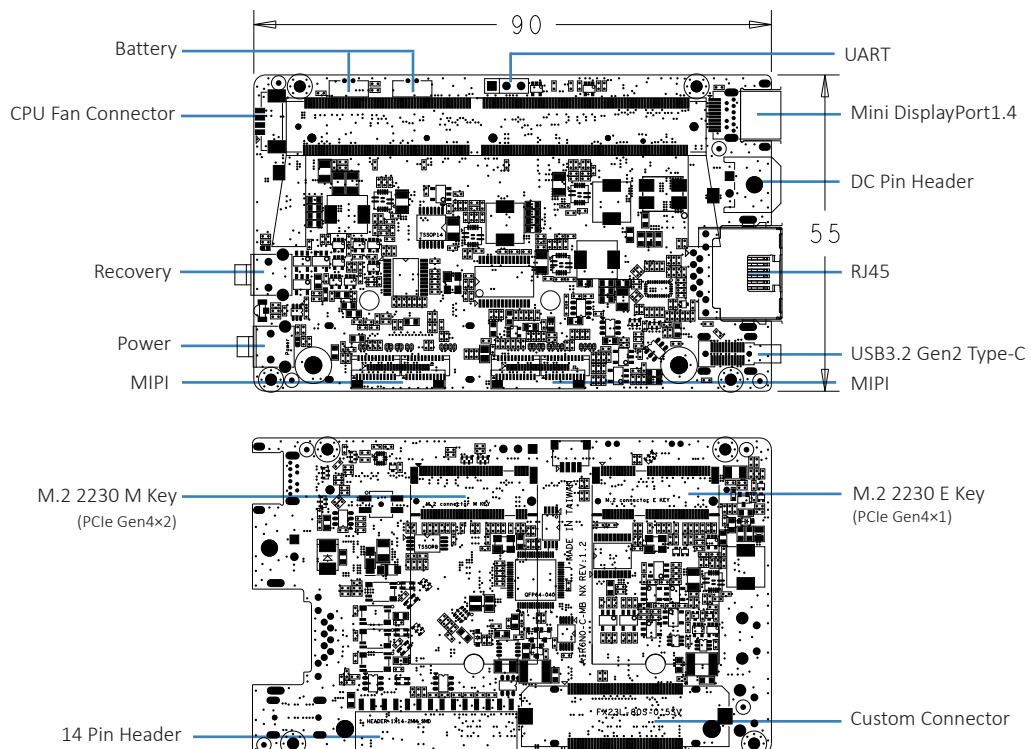
Mechanical

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



I/O Layout

- Carrier Board



- I/O Board

