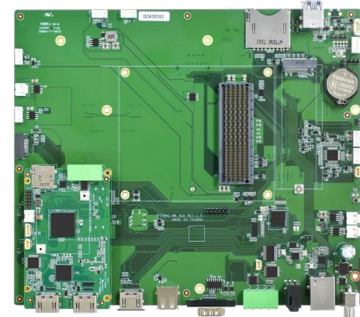


PIX6N0-MB AGX

Medical AI Platform

Features

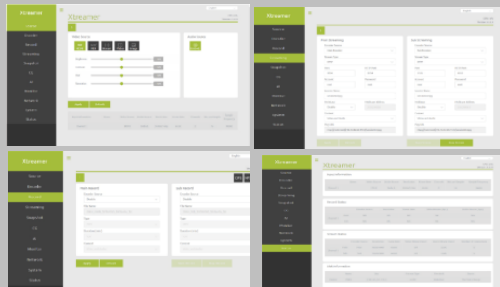
- Powered by NVIDIA Jetson AGX Orin™ or NVIDIA Jetson AGX Orin™ Industrial (NVIDIA Jetson IGX Orin™ 500)
- Medical Grade IEC 60601-1
- 2×M.2, Gen 4×4 M Key / Gen 4×4 M Key
- 2×USB3.2 / 2×USB2.0
- UART / GPIO



Specifications

System			
CPU	NVIDIA Jetson AGX Orin™ 32GB 8-core Arm® Cortex®-A78AE v8.2 64-Bit CPU 2MB L2 + 4MB L3	NVIDIA Jetson AGX Orin™ 64GB 12-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 3MB L2 + 6MB L3	NVIDIA Jetson AGX Orin™ Industrial 12-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 3MB L2 + 6MB L3
GPU	NVIDIA Jetson AGX Orin™ 32GB 1792-Core NVIDIA Ampere Architecture GPU with 56 Tensor Cores	NVIDIA Jetson AGX Orin™ 64GB 2048-Core NVIDIA Ampere Architecture GPU with 64 Tensor Cores	NVIDIA Jetson AGX Orin™ Industrial 2048-Core NVIDIA Ampere Architecture GPU with 64 Tensor Cores
AI Performance	NVIDIA Jetson AGX Orin™ 32GB 200 TOPS	NVIDIA Jetson AGX Orin™ 64GB 275 TOPS	NVIDIA Jetson AGX Orin™ Industrial 248 TOPS
System Memory	NVIDIA Jetson AGX Orin™ 32GB 32GB LPDDR5	NVIDIA Jetson AGX Orin™ 64GB 64GB LPDDR5	NVIDIA Jetson AGX Orin™ Industrial 64GB LPDDR5 (+ECC)
Interface			
Storage	64GB eMMC 5.1 (On NVIDIA Jetson AGX Orin™ Module) Supports External NVMe 1×SD Card Slot		
Display Interface	2×HDMI2.0		
Ethernet	1×RJ45 for 10/100/1000Mbps Ethernet DHCP Client		
Expansion Slot	M.2 1×M.2 2280 M Key PCIe Gen4×4 Slot 1×M.2 2280 M Key PCIe Gen4×4 Slot		
USB	2×USB3.2 Gen 1 (Type-A) 1×USB2.0 (Type-A) 1×USB2.0 (PIN)		
Audio	1×3.5mm Line In 1×3.5mm Line Out		
Peripheral Communication	D-Sub Connector 1×RS232 1×UART Phoenix Connector 4×GPIO		
Misc. Features	Firmware Upgradable		

Add-On Cards / SDK / Software

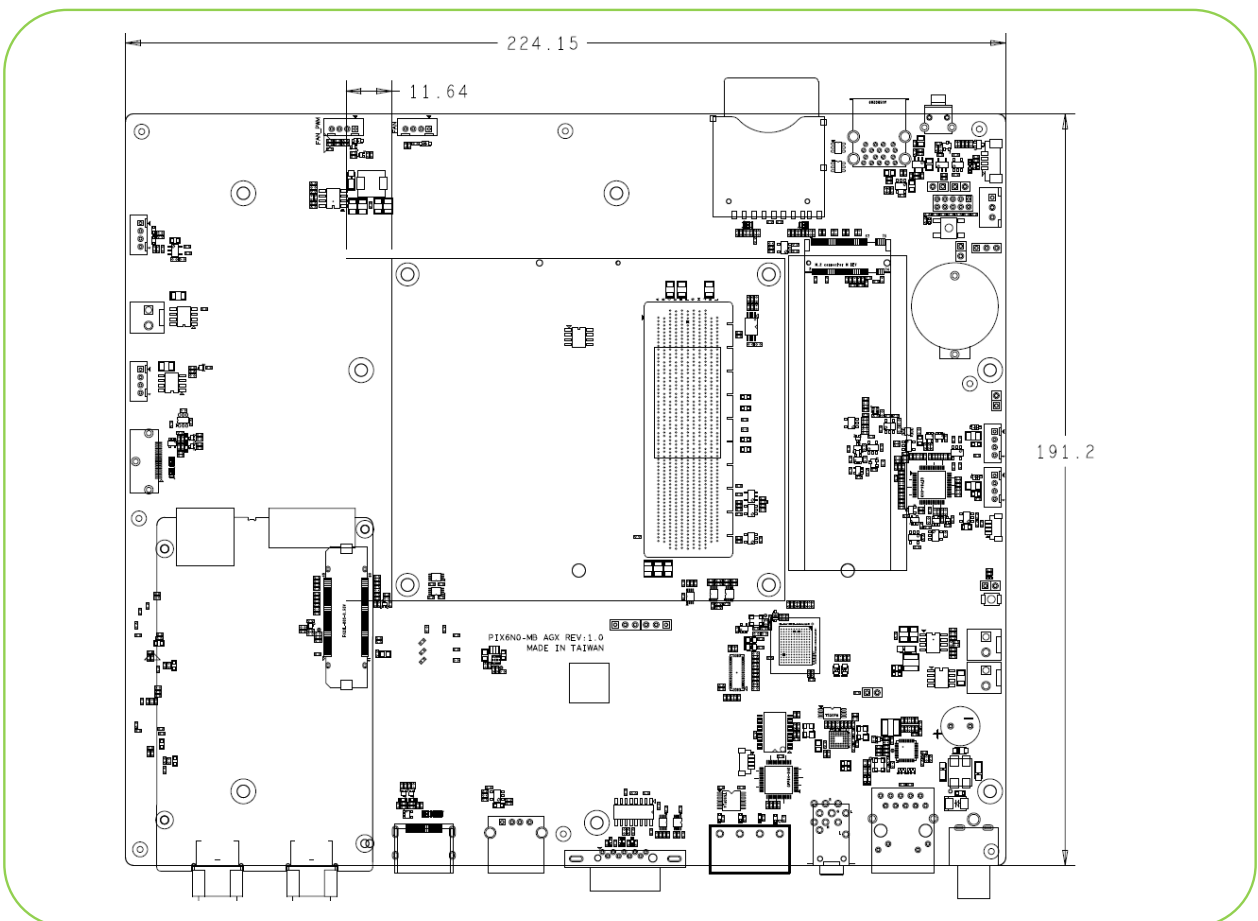
Video Feature			
Video Encode	NVIDIA Jetson AGX Orin™ 32GB: AV1 (UHP) 1x4K60 3x4K30 H.265 (UHP) 1x4K60 3x4K30 H.264 (UHP) 1x4K60 2x4K30	NVIDIA Jetson AGX Orin™ 64GB AV1 (UHP) 2x4K60 4x4K30 H.265 (UHP) 2x4K60 4x4K30 H.264 (UHP) 1x4K60 3x4K30	NVIDIA Jetson AGX Orin™ Industrial AV1 (UHP) 1x4K60 3x4K30 H.265 (UHP) 1x4K60 3x4K30 H.264 (UHP) 1x4K60 3x4K30
Video Decode	NVIDIA Jetson AGX Orin™ 32GB AV1 (Main Profile) · 1x8K30 2x4K60 4x4K30 H.265 (Main, Main10) · 1x8K30 2x4K60 4x4K30 H.264 (Baseline, Main, High) · 1x4K60 2x4K30 VP9 (Profile 0, Profile 2) · 1x4K60 3x4K30	NVIDIA Jetson AGX Orin™ 64GB AV1 (Main Profile) 1x8K30 3x4K60 6x4K30 H.265 (Main, Main10) 1x8K30 3x4K60 7x4K30 H.264 (Baseline, Main, High) 1x4K60 3x4K30 VP9 (Profile 0, Profile 2) 1x8K30 3x4K60 6x4K30	NVIDIA Jetson AGX Orin™ Industrial AV1 (Main Profile) 1x8K30 3x4K60 6x4K30 H.265 (Main, Main10) 1x8K30 3x4K60 7x4K30 H.264 (Baseline, Main, High) 1x4K60 3x4K30 VP9 (Profile 0, Profile 2) 1x8K30 3x4K60 6x4K30
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		
Software (Optional)			
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

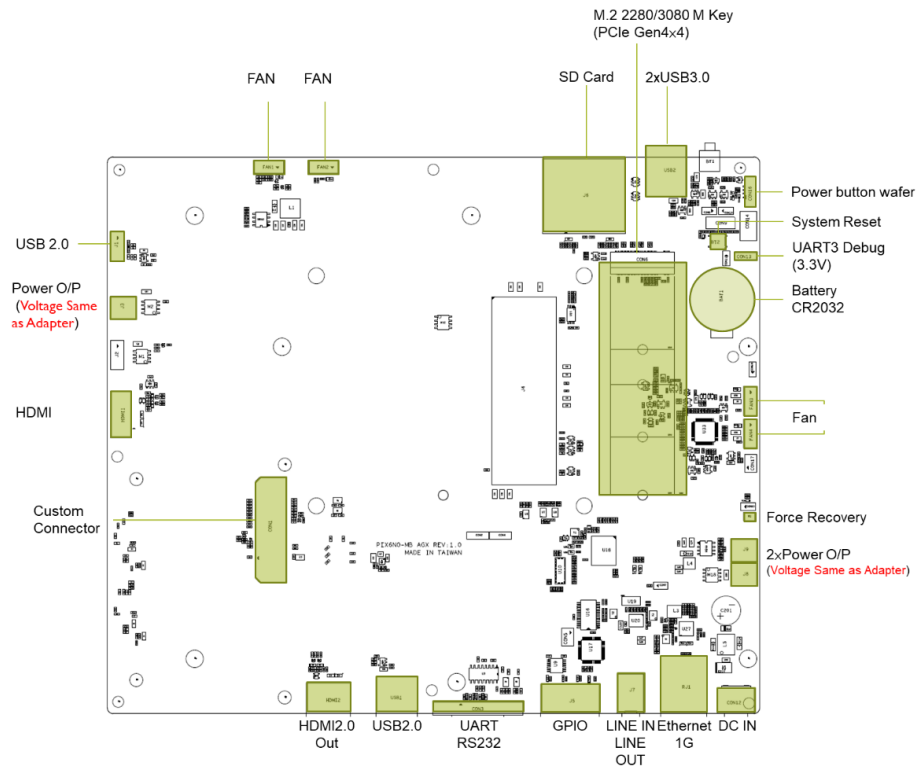
Development Environment	
OS	Ubuntu: 20.04
Kernel	5.10.104-tegra or Higher
BSP	Linux for Tegra(L4T) R35.3.1 or Higher
SDK	JetPack 5.1.1 or Higher
Environment	
Power Supply	DC input : 9~24V
Power Consumption	TBA
Operating Temperature	Standard Version: 0~60℃ with Airflow
Storage Temperature	-20~80 °C

Mechanical

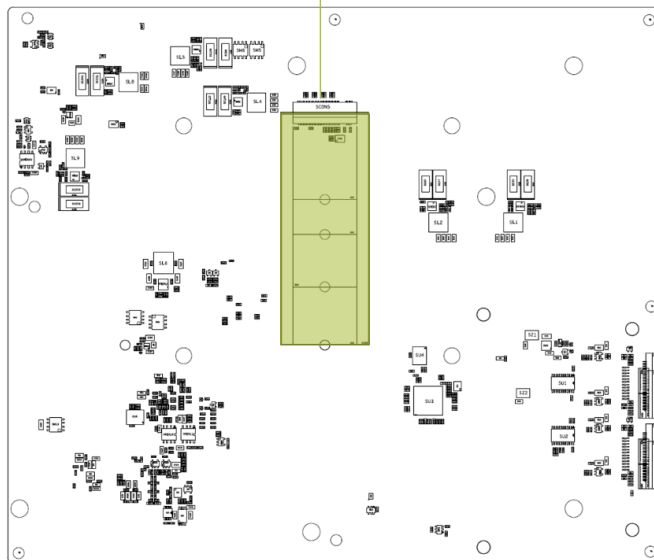
- Dimension of main Board: 224.15mm×191.2mm
- Weight: TBA



· Carrier Board



M.2 2280/3080 M Key
(PCIe Gen4x4)



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660