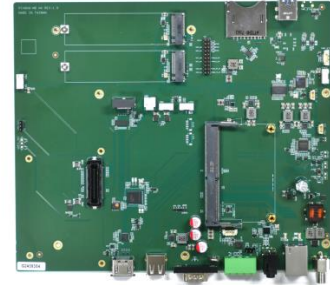


PIX6N0-MB NX

Medical AI Platform

Features

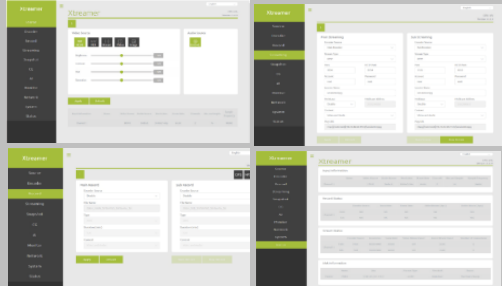
- Powered by NVIDIA® Jetson Orin™ NX
- Medical Grade IEC 60601-1
- 2×M.2, Gen 4×2 M Key / Gen 4×1 M Key
- 2×USB3.2 / 1×USB2.0
- UART / GPIO



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×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 Gen4×2 Slot 1×M.2 2280 M Key PCIe Gen4×1 Slot	
USB	2×USB3.2 Gen2 (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

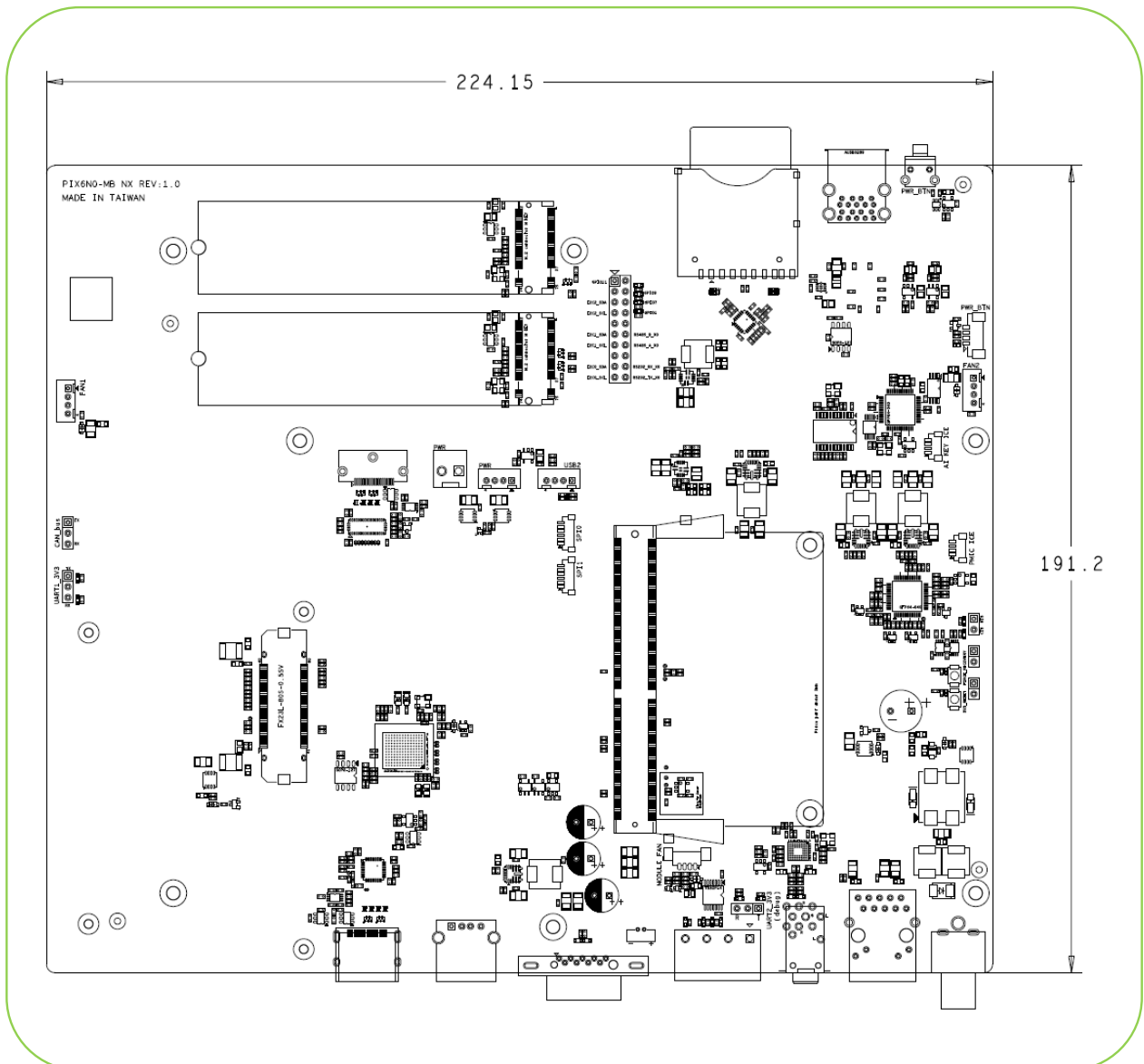
Video Feature	
Video Encode	NVIDIA Jetson Orin™ NX 8GB / 16GB AV1 (UHP) 1×4K60 3×4K30 6×1080p60 12×1080p30 H.265 (UHP) 1×4K60 3×4K30 6×1080p60 12×1080p30 H.264 (UHP) 1×4K60 2×4K30 5×1080p60 11×1080p30
Video Decode	NVIDIA Jetson Orin™ NX 8GB / 16GB AV1 (Main Profile) : 1×8K30 2×4K60 4×4K30 9×1080p60 20×1080p30 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
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

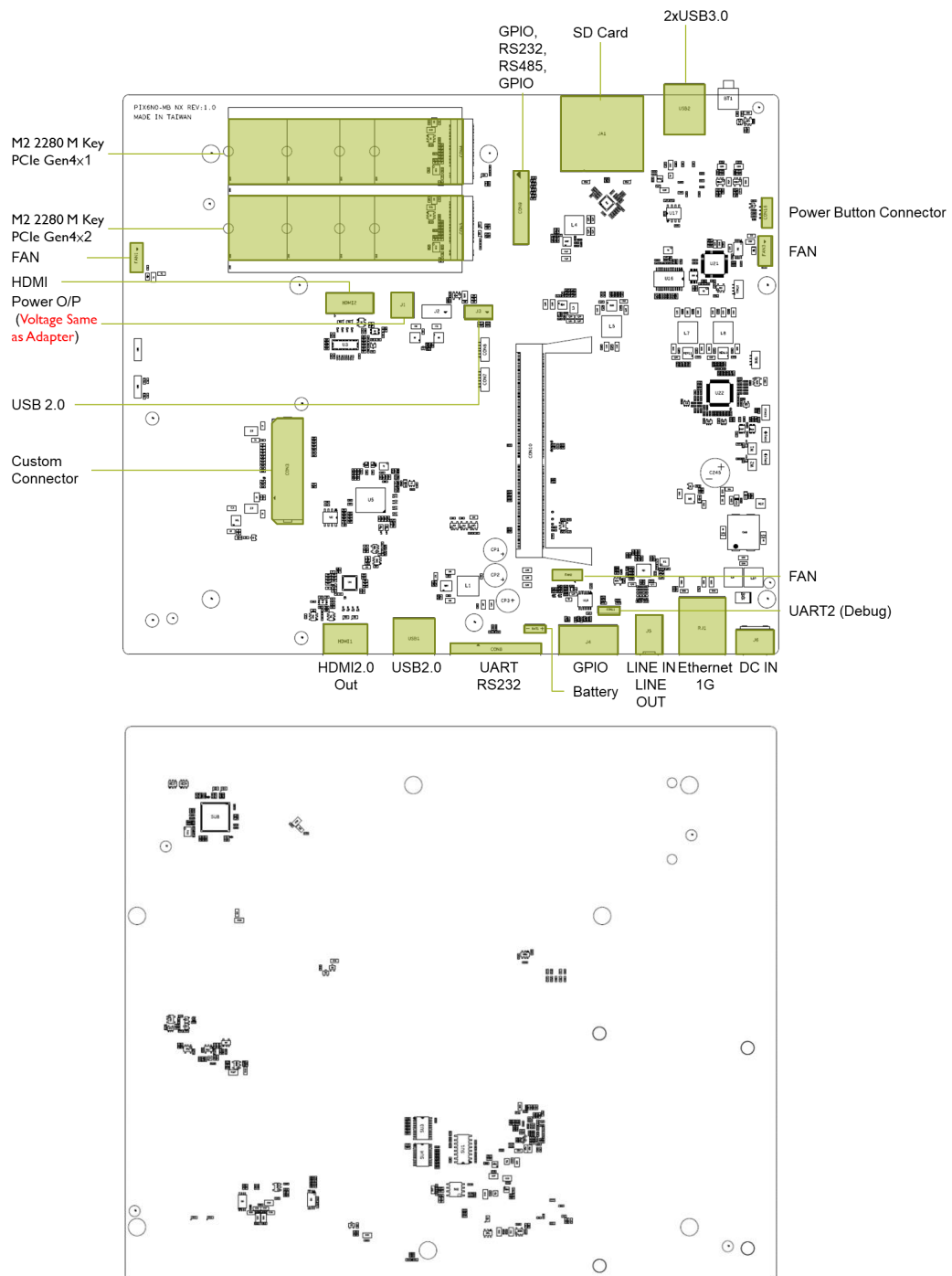
Development Environment	
OS	Ubuntu: 20.04
Kernel	5.10.104-tegra or Higher
BSP	Linux for Tegra(L4T) R35.3.1 or Higher
SDK	JetPack 5.1.1 or Higher
Environment	
Power Supply	DC input : 9~24V
Power Consumption	TBA
Operating Temperature	Standard Version: 0~60℃ with Airflow
Storage Temperature	-20~80 °C

Mechanical

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



· Carrier Board



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