

Pixel NX

Medical AI Computer with 10" Touch Screen

Features

- Powered by NVIDIA® Jetson Orin™ NX Super
- 10" Touch Screen
- 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



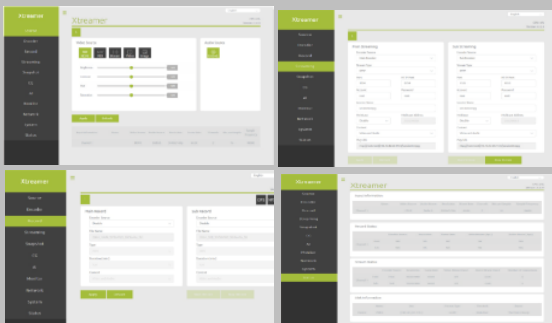
Specifications

System		
CPU	NVIDIA Jetson Orin™ NX 8GB Super 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	NVIDIA Jetson Orin™ NX 16GB Super 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 117 TOPS	NVIDIA Jetson Orin™ NX 16GB 157 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	1×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)	
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)	
Audio	1×3.5mm Line In 1×3.5mm Line Out	
Peripheral Communication	D-Sub Connector 1×RS232 1×UART Phoenix Connector 4×GPIO 1×CAN Bus (Pin Header)	
Misc. Features	Firmware Upgradable	

Key Points

Screen Feature	
Size	10 Inch
Resolution	1280×800

Add-On Cards / SDK / Software

Video Feature		
Video Encode	NVIDIA Jetson Orin™ NX 8GB / 16GB Super 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 Super 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	
	Color Format Adjust	
	Record	
	Stream / Network	
	AV1, H.26X 444 / 422 / 420, 10Bit / 8Bit Select MP4, TS RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*) Dante AV-H (*) *Separate License Required	

Environment

Development Environment	
JetPack	6.2 or Higher
Environment	
Power Supply	DC input : 12~36V
Power Consumption	TBA
Operating Temperature	Standard Version: 0~60°C with Airflow
Storage Temperature	-20~80 °C

I/O Layout

- Case

The diagrams illustrate the I/O layout of the device case. The top-left view shows the front panel with a Power jack, USB 2.0 & 3.0 ports, and an SD Card Slot. The top-right view shows the side of the case with a series of ventilation holes. The bottom view shows the rear panel with various ports: 1x3.5mm Line In and 1x3.5mm Line Out, Ground Terminal, DC In, Ethernet, 4xGPIO, RS232 & UART, USB3.2Gen2, and HDMI Out.

Compatible with AIR6N0-C Daughter Board
For other AIR6N0-C Daughter Board models, please visit our website <https://www.yuan.com.tw/product-info/88>

HDMI2.0 4xHDMI 12G-SDI Quad Link 12G-SDI