

VPP6N0-S NX

Compact & Fan-less Edge AI Platform

Features

- Up to 100 TOPS AI Performance
- 3×M2 M Key, Gen 4×4 / Gen 4×2 / Gen 4×1
- Fanless Design
- 4×USB3.2 Gen2
- RS232 / RS485 / I2C



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	
Display Interface	2×HDMI2.0	
Ethernet	1×RJ45 for 10/100/1000 Mbps Ethernet DHCP Client	
Expansion Slot	M2 1×M2 2280 M Key PCIe Gen4×4 Slot 1×M2 2280 M Key PCIe Gen4×2 Slot 1×M2 2280 M Key PCIe Gen4×1 Slot	
USB	4×USB3.2 Gen2 (Type-A) 1×USB3.2 Gen1 (Pin Header) 1×USB3.2 Gen1 (Pin Header, Contains USB3.0 Signal Only)	
MIPI	8×MIPI CSI-2 Lanes (D-PHY 2.1, 2×4 4×2 1×4+2×2 MIPI Lanes, Support MIPI Camera, Capture Card)	
Audio	1×Line In (3.5mm or Pin Header) 1×Line Out (3.5mm or Pin Header)	
Perherial Communication	1×RS232 (Phoenix Connector or Pin Header) 1×RS485 (Phoenix Connector or Pin Header) 4×GPIO (Pin Header) 3×I2C (Pin Header)	
Misc. Features	Firmware Upgradable AutoPower (Pin Header)	

Add-On Cards / SDK / Software

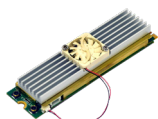
Video Feature				
Capture Card (Optional)	Model	Interface	Max. Resolution	Capture / Preview
	SC750N1 M2 HDMI2.1	1×HDMI2.1	4096×2160p@60/50fps (4:4:4 / 10Bit)	4:2:2 10Bit P210 4:2:0 10Bit P010 4:4:4 8Bit YV24 4:4:4 8Bit RGB32 / 24 4:2:2 8Bit YUY2 4:2:0 8Bit YV12, NV12
	SC710N1 M2 HDMI2.0	1×HDMI2.0	4096×2160p@60/50fps	
	SC710N1 M2 12G-SDI	1×12G-SDI, 1×Quad-Link 3G-SDI	4096×2160p@60/50fps	
	SC400N4 M2 TVI / AHD	4×TVI / AHD	1920×1080p@30/25fps	
	SC400N4 M2 HDMI	4×HDMI	1920×1080p@60/50fps	
	SC400N4 M2 SDI	4×3G-SDI	1920×1080p@60/50fps	
	SC400N1 M2 HDV	1×DVI-I, 1×YPbPr, 1×VGA	1920×1080p@60/50fps	
Video Encode	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	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 (*), Dante AV-H (*) Animation Transition Effect Video Cropping, Scaling and Alpha Blending Engine *Separate License Required			
QDEEP	Face Recognition Objects Detection Objects Segment Optical Character Recognition License Plate Recognition Customizable Video AI Functions Upon Request			



SC750N1 M2 HDMI2.1



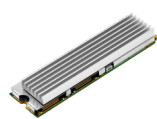
SC710N1 M2 HDMI2.0



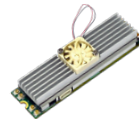
SC710N1 M2 12G-SDI



SC400N4 M2 TVI / AHD



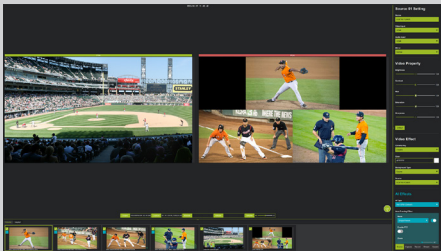
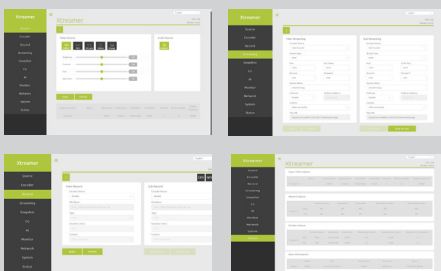
SC400N4 M2 HDMI



SC400N4 M2 SDI



SC400N1 M2 HDV

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 Multi-Streams Stream Server RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), 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 (*), Dante AV-H (*) *Separate License Required	
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 : 19V	
Power Consumption	TBA	
Operating Temperature	Standard Version: -20~60 ° C with Airflow	
Storage Temperature	-20~80 ° C	

Mechanical

- Dimension of case: 144mm×98mm×80.6mm
- Dimension of main Board: 139.98mm×90mm
- Weight: TBA

