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VPP6N0-S-MB NANO

Entry Edge Al

Features

- Powered by NVIDIA[®] Jetson Orin[™] Nano up to 40/20 TOPS
- · 3×M.2 M Key, Gen 3×4 / Gen 3×2 / Gen 3×1
- · 4×USB3.2 Gen2
- · RS232 / RS485 / I2C

Specifications



CPU	NVIDIA Jetson Orin™ Nano 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3		
GPU	NVIDIA Jetson Orin [™] Nano 4GB 512-core NVIDIA Ampere Architecture GPU with 16 Tensor Cores	NVIDIA Jetson Orin™ Nano 8GB 1024-core NVIDIA Ampere Architecture GPU with 32 Tensor Cores	
AU Performance	NVIDIA Jetson Orin™ Nano 4GB 20 TOPS	NVIDIA Jetson Orin™ Nano 8GB 40 TOPS	
System Memory	NVIDIA Jetson Orin™ Nano 4GB 4GB LPDDR5	NVIDIA Jetson Orin™ Nano 8GB 8GB LPDDR5	
Interface			
Storage	Supports External NVMe		
Display Interface	2×HDMI (1×4K30 2×1080P60)		
Ethernet	1×RJ45 for 10/100/1000Mbps Ethernet DHCP Client		
Expansion Slot	M.2 1×M.2 2280/3080 M Key PCIe Gen3×4 Slot 1×M.2 2280 M Key PCIe Gen3×2 Slot 1×M.2 2280 M Key PCIe Gen3×1 Slot		
USB	4×USB3.2 Gen2 (Type-A) 2×USB3.2 Gen1 (Pin Header)		
MIPI	2×4MIPI CSI-2 Lanes (D-PHY 2.1, Support MIPI Camera, Capture	e Card)	
Audio	1×Line In (3.5mm or Pin Header) 1×Line Out (3.5mm or Pin Header)		
Peripheral 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)		

Key Points

5G-DB (Optional)

Supports 5G / 4G / 3G Module 5G: Sub-6, SA, Non-SA 4G: LTE Cat20, LTE FDD, LTE TDD 3G: HSPA+



PSE-DB (Optional)

IP Camera 4×RJ45 for 10 / 100 / 1000Mbps Ethernet (with IEEE802.3af and IEEE802.3at Compliant) PSE Power Supply 4×15W (IEEE802.3af) 4×30W (IEEE802.3at)



Add-On Cards / SDK / Software

Video Feature				
	M.2 Model	Interface	Max. Resolution	Capture / Preview
Capture Card (Optional)	SC400N1 M2 AIO	1×HDMI, 1×3G-SDI	1920×1080p@30/25fps	4:2:2 10Bit P210
	SC400N1 M2 HDMI	1×HDMI	1920×1080p@60/50fps	4:2:0 10Bit P010 4:4:4 8Bit YV24
	SC400N1 M2 SDI	1×3G-SDI	1920×1080p@60/50fps	4:4:4 8Bit RGB32 / 24
	SC400N1 M2 HDV	1×DVI-I, 1×YPbPr, 1×VGA	1920×1080p@60/50fps	4:2:2 8Bit YUY2 4:2:0 8Bit YV12, NV12
Video Encode	1080p30 supported by 1-2 CPU cores			
Video Decode	AV1 (Main Profile) 1×4K60 2×4K30 5×1080p60 10×1080p30 H.265 (Main, Main10) 1×4K60 2×4K30 5×1080p60 11×1080p30 H.264 (Baseline, Main, High) 1×4K30 3×1080p60 7×1080p30 VP9 (Profile 0, Profile 2) 1×4K60 2×4K30 5×1080p60 11×1080p30			
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 Universal 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	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			



SC710N1 M2 HDMI2.0



SC710N1 M2 12G-SDI



SC400N4 M2 TVI/AHD



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	
		Web Based User Interface	
		Encode / Decode AV1, H.26X	100 100 100 100 100 100 100 100 100 100
	Xtreamer	Color Format Adjust 444 / 422 / 420, 10Bit / 8Bit Select	444 444 444
		Record MP4, TS	ta ya Kada Manana Manana
		Stream / Network RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Dante AV-H (*) *Separate License Required	a ana ana ana ana ana ana



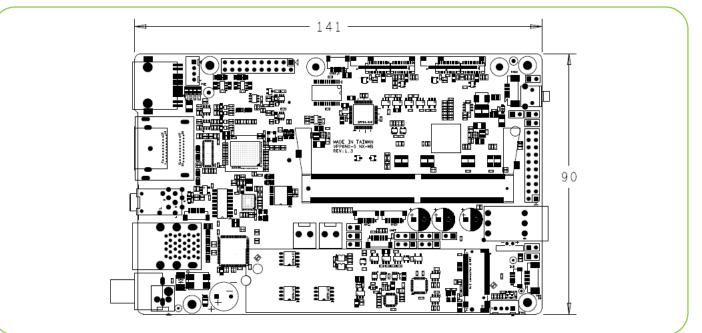
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Environment

Development Environmer	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	Environment		
Power Supply	DC input : 19V		
Power Consumption	ТВА		
Operating Temperature	Standard Version: 0~60 ° C with Airflow		
Storage Temperature	-20~80 C		

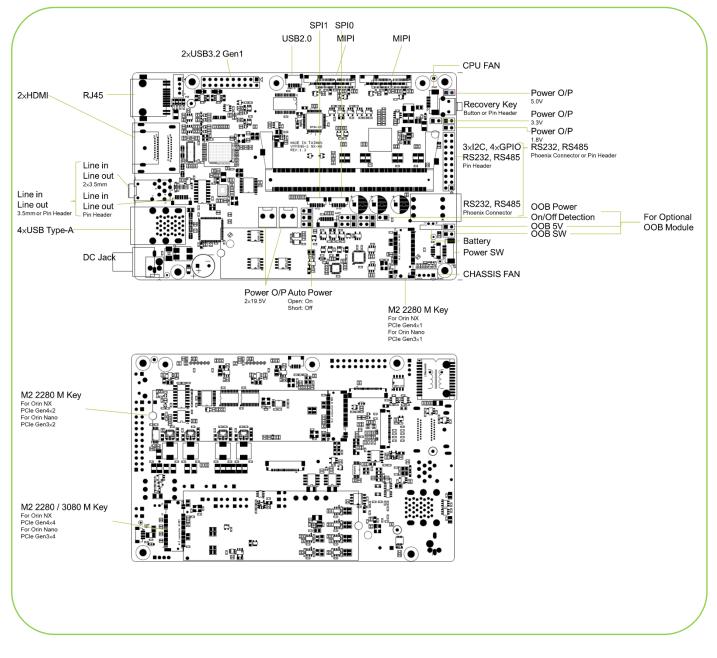
Mechanical

- · Dimension of main Case: 140mm×90mm
- · Weight: TBA



I/O Layout

Carrier Board



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