Pandora Nano 4GB Super

Compact Edge AI

Features

- Powered by NVIDIA[™] Jetson Orin[™] Nano 4GB Super up to 34 TOPS
- Compact Size: 145mm×123mm×66mm
- 4×M.2, 8 Lanes MIPI CSI-2, and I2C / UART / GPIO / CAN Bus
- · 2×USB3.2 Gen2, 2×USB2.0, 1×Nano SIM Card Slot
- · 1×HDMI2.0





Specifications

System	
SOM Module	NVIDIA Jetson Orin™ Nano 4GB Super
CPU	6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3
GPU	512-Core NVIDIA Ampere Architecture GPU with 16 Tensor Cores
AI Performance	34 TOPS
System Memory	4GB 64-bit LPDDR5 51GB/s
Interface	
Storage	Supports External NVMe
Display Interface	1×HDMI2.0
Ethernet	2×RJ45 for 10/100/1000Mbps Ethernet DHCP Client
Expansion Slot	1×M.2 2280 M Key PCIe Gen3×2 Slot (with Pre-Installed 128GB SSD) 1×M.2 2280/3080 M Key PCIe Gen3×4 Slot, Support SSD or Video Capture Cards 1×M.2 2230 E Key PCIe Gen3×1+USB2.0 Slot, Support WiFi Module. 1×M.2 3042/3052 B Key USB3.2 Gen1 Slot, Support 5G/4G Wireless Module
USB	2×USB3.2 Gen2 (Type-A) 1×USB3.2 Gen2 (Type-C) (OTG) 2×USB2.0 (Type-A)
MIPI	8-Lane MIPI CSI-2 (D-PHY 2.1, Support MIPI Camera, Capture Card)
Audio	1×Line In (3.5mm Phone Jack) 1×Line Out (3.5mm Phone Jack)
Peripheral Communication	40 Pin Header 1×12S 2×12C 2×SPI 1×UART 3×GPIO 14 Pin Header 1×CAN Bus 1×UART with CTS/RTS 1×UART for Debug 1×Nano SIM Card Slot
Misc. Features	Firmware Upgradable TPM Module (Optional)

Video Encode / Decode

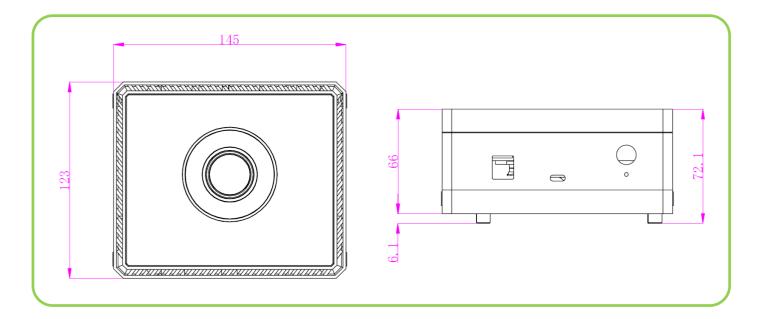
Video Feature	
Video Encode	NVIDIA Jetson Orin™ Nano Super:
	1080p30 supported by 1-2 CPU cores
	NVIDIA Jetson Orin™ Nano Super:
	AV1 (Main Profile)
	1×4K60 2×4K30 5×1080p60 10×1080p30
	H.265 (Main, Main10)
Video Decode	1×4K60 2×4K30 5×1080p60 11×1080p30
	H.264 (Baseline, Main, High)
	1×4K30 3×1080p60 7×1080p30
	VP9 (Profile 0, Profile 2) 1×4K60 2×4K30 5×1080p60 11×1080p30

Environment

Development Environment		
JetPack	6.2 or Higher	
Environment		
Power Supply	DC input : 9~36V	
Power Consumption	Max: 27W	
Operating Temperature	Standard Version: 0~60 °C with Airflow	
Storage Temperature	-20~80 °C	

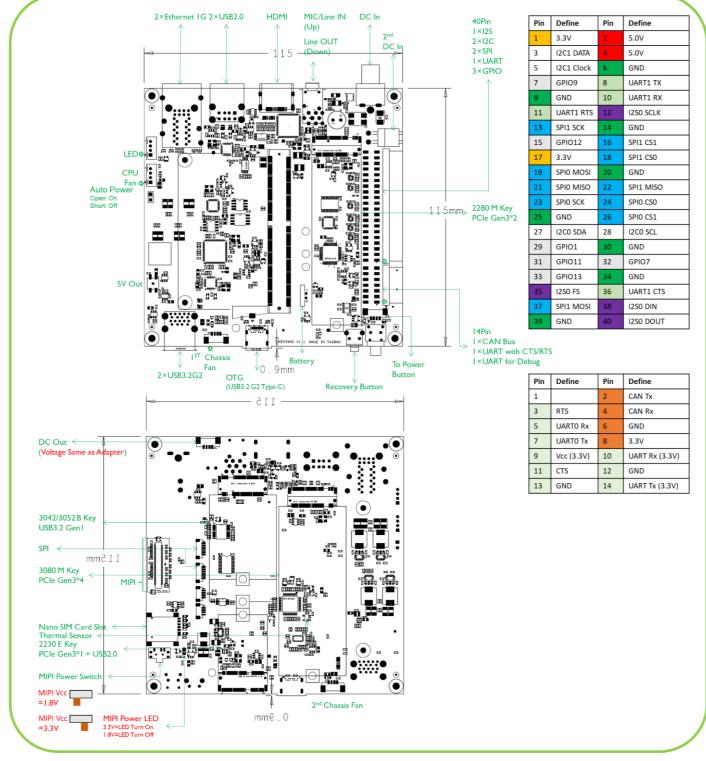
Mechanical

- · Dimension of case: 145mm×123mm×66mm
- · Dimension of main Board: 115mm×115mm
- Weight: 470g





• Carrier Board



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