# Pandora NX 8GB Super



# Compact Edge Al

#### **Features**

- · Powered by NVIDIA™ Jetson Orin™ NX 8GB Super up to 117 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**

SOM Module  NVIDIA Jetson Orin™ NX 8GB Super  CPU 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3  GPU 1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores  AI Performance 117 TOPS  System Memory 102.4GB/s  Interface  Storage Supports External NVMe  Display Interface  1×HDMI2.0  Ethernet 2×RI45 for 10/100/1000Mbps Ethernet DHCP Client 1×M.2 2280 M Key PCIe Gen4×2 Slot ( with Pre-Installed 128GB SSD ) 1×M.2 2280/3080 M Key PCIe Gen4×4 Slot, Support SSD or Video Capture Cards
CPU 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3  GPU 1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores  AI Performance 117 TOPS  System Memory 8GB 128-bit LPDDR5 102.4GB/s  Interface  Storage Supports External NVMe  Display Interface 1×HDMI2.0  Ethernet 2×RJ45 for 10/100/1000Mbps Ethernet DHCP Client 1×M.2 2280 M Key PCIe Gen4×2 Slot ( with Pre-Installed 128GB SSD )
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2×RJ45 for 10/100/1000Mbps Ethernet DHCP Client  1×M.2 2280 M Key PCIe Gen4×2 Slot ( with Pre-Installed 128GB SSD )
DHCP Client  1×M.2 2280 M Key PCIe Gen4×2 Slot ( with Pre-Installed 128GB SSD )
Expansion Slot  1xM.2 2280/3080 Whey Pole Gen4x4 slot, Support SSD of Video Capture Cards  1xM.2 2230 E Key PCle Gen4x1+USB2.0 Slot, Support WiFi Module.  1xM.2 3042/3052 B Key USB3.2 Gen1 Slot, Support 5G/4G Wireless Module
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 )
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		
	NVIDIA Jetson Orin™ NX Super: AV1 ( UHP ) 1×4K60   3×4K30   6×1080p60   12×1080p30	
Video Encode	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 Super: AV1 (Main Profile )  1×8K30   2×4K60   4×4K30   10×1080p60   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	

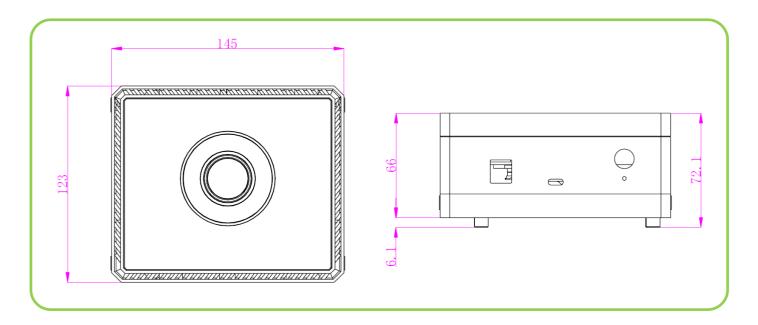
### **Environment**

Development Environment	
JetPack	6.2 or Higher
Environment	
Power Supply	DC input : 12~36V
Power Consumption	Max: 47.1W
Operating Temperature	Standard Version: 0~60 °C with Airflow
Storage Temperature	-20~80 °C

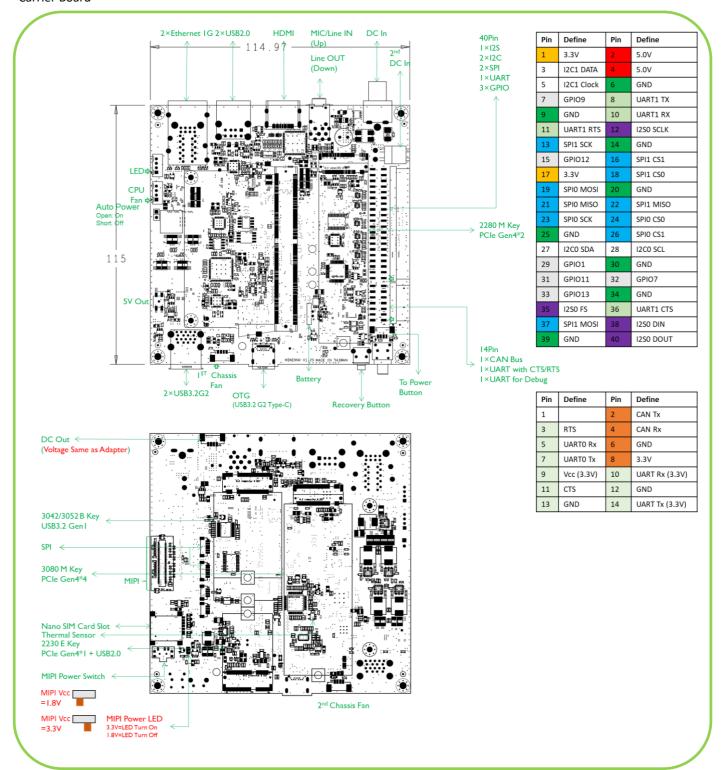
### Mechanical

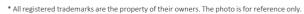
Dimension of case: 145mm×123mm×66mm
 Dimension of main Board: 115mm×115mm

· Weight: 470g



· Carrier Board





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