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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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		
Video Encode	NVIDIA Jetson Orin™ NX 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 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	

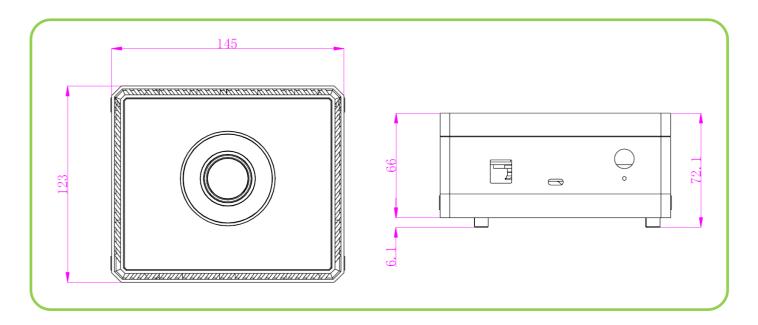
Environment

Development Environment		
JetPack	6.2 or Higher	
Environment		
Power Supply	DC input : 12~36V	
Power Consumption	Max: 42W	
Operating Temperature	Standard Version: 0~60 °C with Airflow	
Storage Temperature	-20~80 °C	

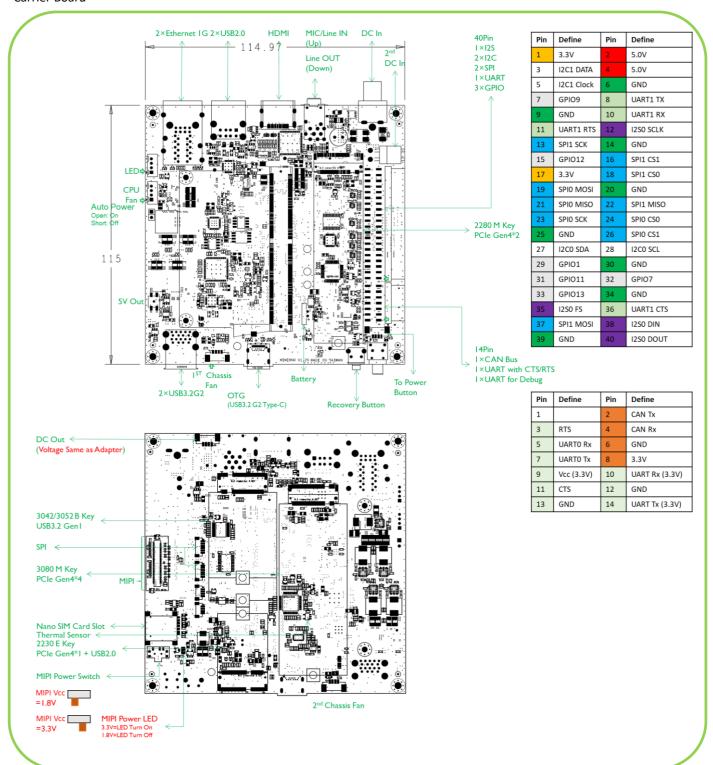
Mechanical

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

· Weight: 470g



· Carrier Board





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㈱連基 〒110-0003 東京都台東区根岸2丁目20-10 お問い合わせ: info@cnct.world Phone: 03-5842-1785