Pandora Nano 4GB Super



Compact Edge Al

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×HDMI1.4





Specifications

| <u> </u> | | |
|--------------------------|---|--|
| 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 | |
| Al Performance | 34 TOPS | |
| System Memory | 4GB 64-bit LPDDR5 51GB/s | |
| Interface | | |
| Storage | Supports External NVMe | |
| Display Interface | 1×HDMI1.4 | |
| 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 |
| Video Decode | NVIDIA Jetson Orin™ Nano Super: 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 2) 1×4K60 2×4K30 5×1080p60 11×1080p30 |

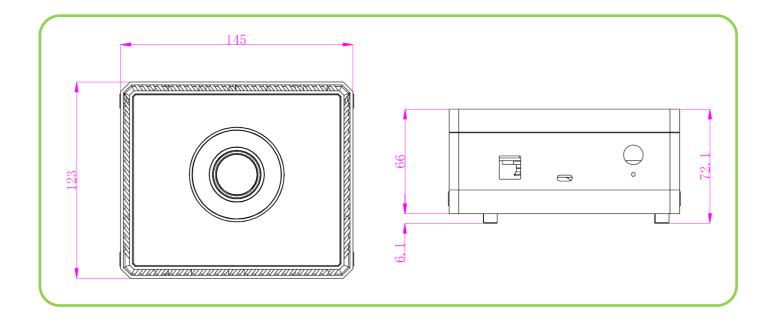
Environment

| Development Environment | | |
|-------------------------|--|--|
| JetPack | 6.2 or Higher | |
| Environment | | |
| Power Supply | DC input : 9~36V | |
| Power Consumption | Max: 37.W | |
| Operating Temperature | Standard Version: 0~60 °C with Airflow | |
| Storage Temperature | -20~80°C | |

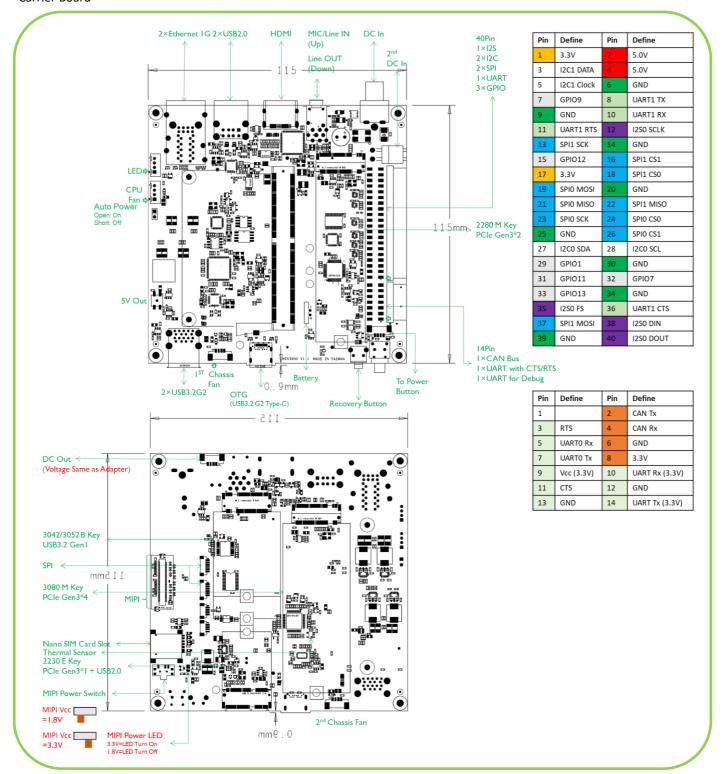
Mechanical

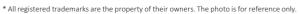
Dimension of case: 145mm×123mm×66mm
 Dimension of main Board: 115mm×115mm

· Weight: 470g



· Carrier Board





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