AI Computer

Discover Generative AI at the Edge

PANDORA Features

- NVIDIA Jetson OrinTM Nano 8GB Super up to 67 TOPS
- Compact Size : 145mm × 123mm × 66mm
- 4×M.2, 8 Lanes MIPI CSI-2, and I2C / UART / GPIO / CAN Bus
- 2xUSB3.2 Gen2, 2 x USB2.0, 1 x Nano SIM Card Slot
- 1×HDMI 1.4
- Built-in RTC rechargeable lithium battery

Powered by

NVIDIA Jetson Orin $^{\rm TM}$ Nano Super Developer kit

Specification

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
Al Performance	67 TOPS
System Memory	8GB 128-bit LPDDR5, total 102 GB/s
Part Number	A003FV1P1

Interface

Storage	Supports External NVMe		
Display Interface	1×HDMI1.4		
Ethernet	2×RJ45 for 10/100/1000Mbps Ethernet DHCP Client		
USB	2×USB3.2 Gen2(Type-A) 1×USB3.2 Gen2(Type-C)(OTG) 2×USB2.0(Type-A)		
Expansion Slot	1×M.2 2280 M Key PCIe Gen4 SSD) 1×M.2 2280/3080 M Key PCIe Video Capture Cards 1×M.2 2230 E Key PCIe Gen4× Module 1×M.2 3042/3052 B Key USB3. Wireless Module	1+USB2.0 Slot, Support Wi-Fi	
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 Communic ation	40 Pin Header 1×I2S 2×I2C 2×SPI 1×UART 3×GPIO	14 Pin Header 1xCAN Bus 1xUART with CTS/RTS 1×UART for Debug	
Misc. Features	Firmware Upgradable		

Video Encode/Decode

V E

D

/ideo Incode	NVIDIA Jetson Orin TM Nano Super:
	1080p30 supported by 1-2 CPU cores
/ideo Decode	NVIDIA Jetson Orin TM Nano Super:
	AV1 (Main Profile) 1x4K60 2x4K30 5x1080p60 10x1080p30
	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

Environment

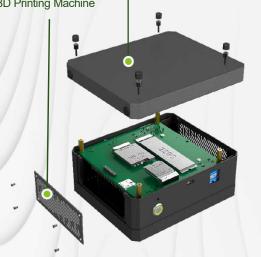
Power Supply	DC input : 9~36V
Power Consumption	Max: 43.5W
Operating Temperature	Standard Version: 0~60°C with Airflow
Storage Temperature	-20~80°C

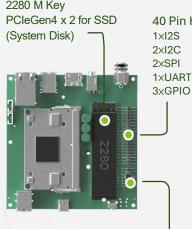
For detailed instructions, check the QR code. www.palit.com/pandora











14 Pin Header 1xCAN Bus 1xUART with CTS/RTS 1×UART for Debug 2280 / 3080 M Key PCleGen4 x 4 for 2nd SSD / Video Capture CleGen4 x 1 + USB2.0 for BT / Wifi Nano Sim Card Ax 2 Lane

> 3042 / 3052 B Key USB3.2 Gen2 for 5G / 4G

AI Computer

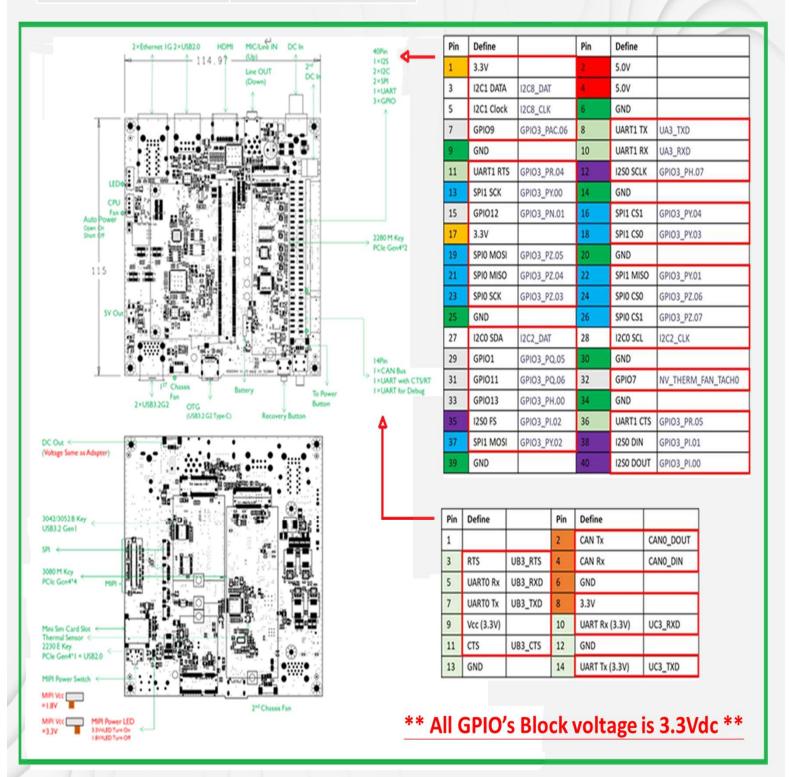
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I/O Layout

Carrier Board

115mm × 115mm



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