AI Inference / DeviceEdge

Jetson System AIE-PX13/AIE-PX23

*Preliminary

Features

- Supports NVIDIA Jetson AGX Orin 32GB/64GB
- 1 x GbE/1 x 10GbE LAN port
- 1 x B-Key/1 x E-Key/1 x M-Key slot
- Wide Input Voltage Range 9 to 36 VDC
- Operating Temperature -25°C ~ +55°C
- Fanless Design

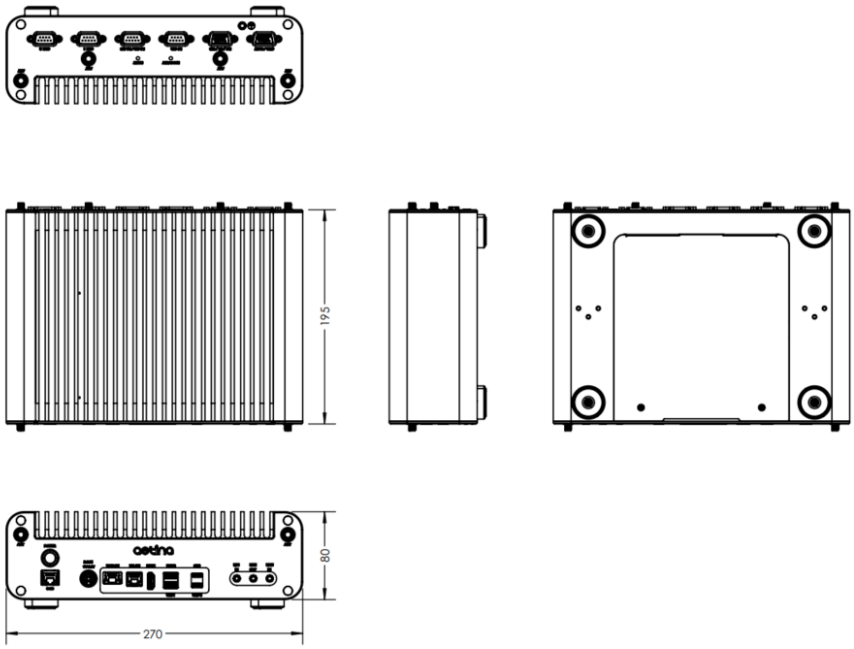
NVIDIA ELITE PARTNER

Specifications

Model Number	AIE-PX13	AIE-PX23
Module Compatibility	NVIDIA Jetson AGX Orin 32GB	NVIDIA Jetson AGX Orin 64GB
AI Performance	200 TOPS	275 TOPS
GPU	1792-core NVIDIA Ampere GPU with 56 Tensor Cores	2048-core NVIDIA Ampere GPU with 64 Tensor Cores
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
Memory	32GB 256-bit LPDDR5 204.8 GB/s	64GB 256-bit LPDDR5 204.8 GB/s
Storage	64GB eMMC 5.1	
Display	1 x HDMI 2.0 Type A	
Audio	Line-out/Line-in/Mic (optional with daughter board)	
LAN	1 x RJ-45 GbE, 1 x RJ-45 10GbE	
USB	2 x USB 3.2 Gen1 Type A, 1 x USB 2.0 (DB-15), 1 x OTG Type-C, 1 x USB 3.2 Gen2 Type-C	
I/O Interfaces	2 x I2C, 1 x SPI, 5 x GPIO 1 x RS-232, 1 x RS-422/485 2 x CAN 2.0b w/ isolation 1 x microSIM Card Slot	
Expansion	1 x M.2 B-Key 3042/3052 (LTE/4G/5G, USB 3.2/USB 2.0) 1 x M.2 E-Key 2230 (WiFi/BT, PCIe/USB 2.0) 1 x M.2 M-Key 2280 (supports NVMe, PCIe x2 Gen4) 1 x microSD Card Slot	
MISC. Function	1 x Power / Recovery / Reset Button 2 x UART, 1 x UART (Debug only)	
Power Input / Connector	DC-IN 9 to 36 VDC / 4-Pin DC Jack Power Connector	
Power Consumption	Idle: TBD W Full Loading: TBD* W	Idle: TBD W Full Loading: TBD* W
	*For more test condition information, please refer to user manual	
Dimension (W x Dx H)	270 x 195 x 80 mm (10.63 x 7.67 x 3.15 in)	
Mounting	Wall Mount / Din Rail (optional)	
Net Weight	4.4 kg (9.7 lb)	
Vibration	1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis	
Shock	10 G, IEC 60068-2-27, half sine, 11 ms duration	
Temperature	Operating Temperature: -25°C ~ +55°C (-13° F ~+131° F) Storage Temperature: -25°C ~ +85°C (-13° F ~+185° F)	
Humidity	95% @ 40°C (104°F) (non-condensing)	
OS Support	Ubuntu 20.04	
Certification	CE/FCC Class A	

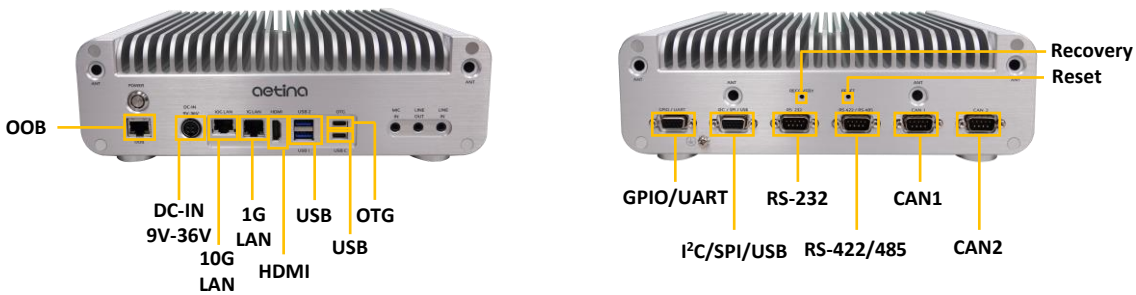
*Product Specifications Are Subject To Change Without Prior Notice

System & Mounting Dimensions



*Preliminary

I/O Mechanical Layout



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Ordering Information

Model name	Description
AIE-PX13-1-A1	AGX Orin 32GB, 1 x HDMI, 1 x GbE, 1 x 10GbE, 3 x USB, B/E/M Key, 9 to 36 VDC input, -25°C ~ +55°C
AIE-PX23-1-A1	AGX Orin 64GB, 1 x HDMI, 1 x GbE, 1 x 10GbE, 3 x USB, B/E/M Key, 9 to 36 VDC input, -25°C ~ +55°C

Packing List

Item/Part Number	Description
AIE-PX13	AIE-PX13 system w/ AGX Orin 32GB
AIE-PX23	AIE-PX23 system w/ AGX Orin 64GB
53-0FG160-1200	85~264V 138W 12V 11.5A power adaptor

Accessories (Optional)

Part Number	Description
32-010000-0005	US power cord
32-010000-0006	EU power cord
32-010000-0008	JP power cord

Peripheral (Optional)

Download the List

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