AI Inference / DeviceEdge

Jetson System
AIE-PX11/AIE-PX12
AIE-PX21/AIE-PX22



Features

- Supports NVIDIA Jetson AGX Orin 32GB/64GB
- 2/4 x IEEE 802.3af GbE PSE ports
- 1 x GbE/10GbE LAN port
- 1 x M.2 B-Key/1 x M.2 E-Key/1 x M.2 M-Key slot
- Wide Input Voltage Range 9 to 36 VDC
- Operating Temperature -25°C ~ +55°C
- Supports OOB (out-of-band) powered by Innodisk (optional)
- Fanless Design

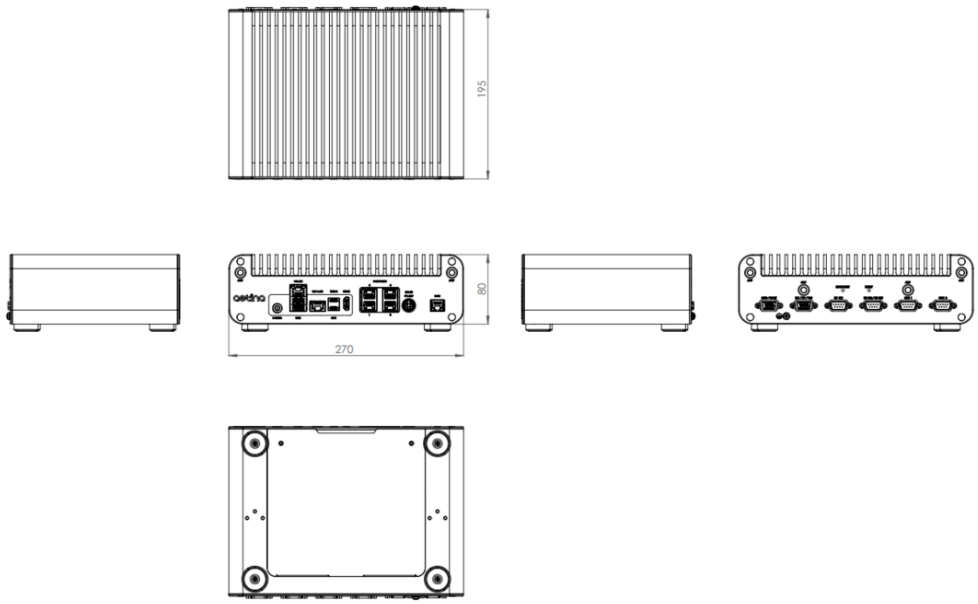
NVIDIA Elite Partner

Specifications

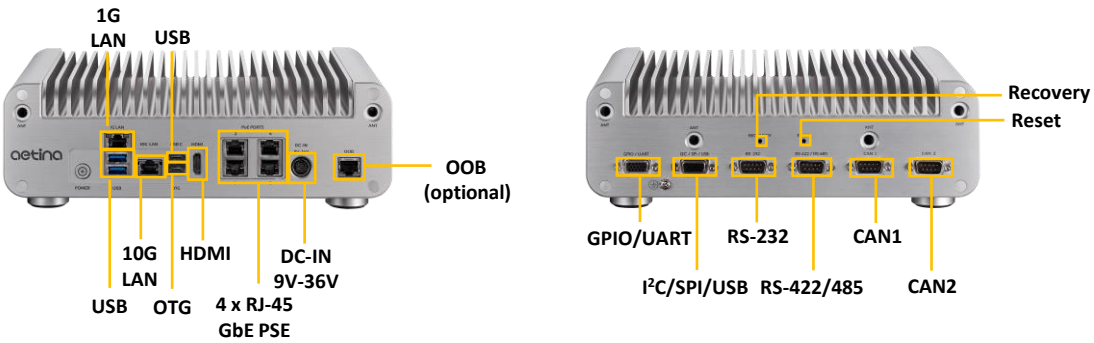
Model Number	AIE-PX11	AIE-PX12	AIE-PX21	AIE-PX22
Module Compatibility	NVIDIA Jetson AGX Orin 32GB		NVIDIA Jetson AGX Orin 64GB	
AI Performance	200 TOPS		275 TOPS	
GPU	1792-core NVIDIA Ampere GPU with 56 Tensor Cores		2048-core NVIDIA Ampere GPU with 64 Tensor Cores	
CPU	8-core Arm® Cortex®-A78AE v8.2 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			
TPM	TPM v2.0 (optional)			
LAN	1 x RJ-45 GbE, 1 x RJ-45 10GbE			
PoE Interface	2 x RJ-45 GbE PSE (IEEE 802.3af compliant, Power Output 15W/Port)*	4 x RJ-45 GbE PSE (IEEE 802.3af compliant, Power Output 15W/Port)*	2 x RJ-45 GbE PSE (IEEE 802.3af compliant, Power Output 15W/Port)*	4 x RJ-45 GbE PSE (IEEE 802.3af compliant, Power Output 15W/Port)*
	*PSE Port 1 & Port 2 support IEEE 802.3at compliant; Total PSE ports support up to 60W			
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 I^2C, 1 x SPI, 5 x GPIO, 2 x UART 1 x RS-232, 1 x RS-422/485 (2-in-1), 2 x CAN 2.0b (isolation; support CAN FD) 1 x microSIM Card Slot, 1 x OOB (optional)			
Expansion	1 x M.2 B-Key 3042/3052 (LTE/4G/5G) 1 x M.2 E-Key 2230 (WiFi/BT) 1 x M.2 M-Key 2280 (supports NVMe; PCIe x2 Gen3) 1 x microSD Card Slot			
MISC. Function	1 x Power / 1 x Recovery / 1 x Reset Button			
Power Input / Connector	DC-IN 9 to 36 VDC / 4-Pin DC Jack Power Connector			
Power Consumption	Idle: 7.5 W Full Loading: 109* W		Idle: 8 W Full Loading: 130* W	
	*For more test condition information, please refer to user manual			
Dimension (W x D x H)	270 x 195 x 80 mm (10.63 x 7.67 x 3.15 in)			
Mounting	Wall Mount (optional) / Din Rail (optional)			
Net Weight	4.3 kg (9.48 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) with 0.5 m/s air flow Storage Temperature: -40°C ~ +85°C (-40°F ~ +185°F)			
Humidity	95% @ 40°C (104°F) (non-condensing)			
Software Support	Linux (Support Jetpack 5.0 above)			
Certification	CE / FCC Class A / UKCA			

*Product Specifications Are Subject To Change Without Prior Notice

System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIE-PX11-1-A1	AGX Orin 32GB, 1 x HDMI, 1 x GbE, 1 x 10GbE, 2 x PoE, 3 x USB, B/E/M Key, 9 to 36 VDC input, -25˚C ~ +55˚C
AIE-PX12-1-A1	AGX Orin 32GB, 1 x HDMI, 1 x GbE, 1 x 10GbE, 4 x PoE, 3 x USB, B/E/M Key, 9 to 36 VDC input, -25˚C ~ +55˚C
AIE-PX21-1-A1	AGX Orin 64GB, 1 x HDMI, 1 x GbE, 1 x 10GbE, 2 x PoE, 3 x USB, B/E/M Key, 9 to 36 VDC input, -25˚C ~ +55˚C
AIE-PX22-1-A1	AGX Orin 64GB, 1 x HDMI, 1 x GbE, 1 x 10GbE, 4 x PoE, 3 x USB, B/E/M Key, 9 to 36 VDC input, -25˚C ~ +55˚C

Packing List

Item/Part Number	Description
92-CEPX11-R000	AIE-PX11 system w/ AGX Orin 32GB
92-CEPX12-R001	AIE-PX12 system w/ AGX Orin 32GB
92-CEPX21-R001	AIE-PX21 system w/ AGX Orin 64GB
92-CEPX22-R001	AIE-PX22 system w/ AGX Orin 64GB
53-0F0000-0008	85~264V 221W 24V 9.2A 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
3102000037N000	UK power cord
55-BEPX11-Z000	Wall Mount Kit
55-AEPX11-Z000	Din Rail Kit

Peripheral (Optional)

Download the List

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