

AI Inference / DeviceEdge

Jetson System AIE-PX11/12/21/22-1-A2



Features

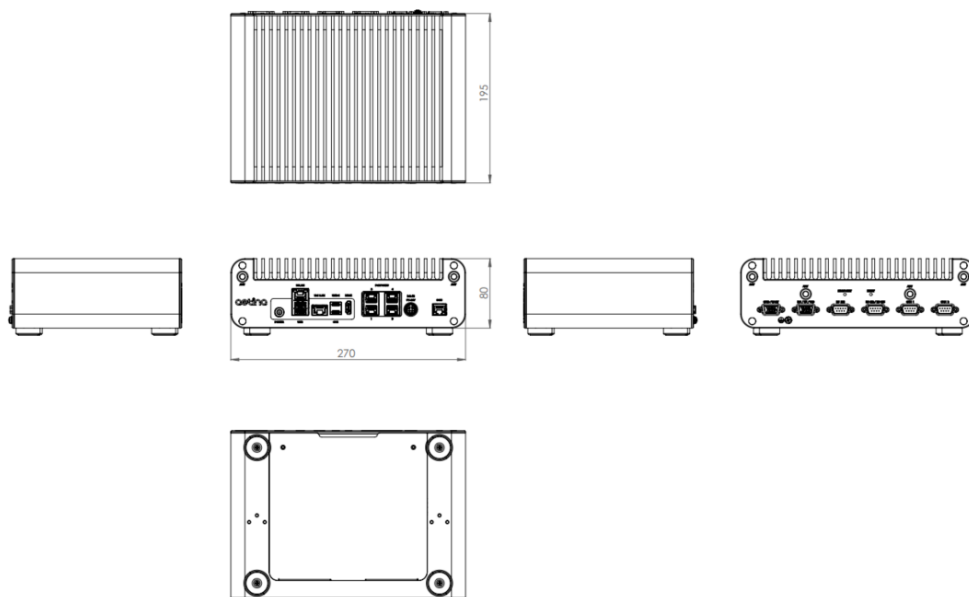
- Supports NVIDIA® Jetson AGX Orin™ 64GB
- 4 x IEEE 802.3af GbE PSE ports
- 1 x GbE/10GbE LAN port
- 1 x M.2 B-Key, 1 x M.2 E-Key, 1 x M.2 M-Key slot
- Wide Input Voltage Range 9 to 36V DC
- Operating Temperature -25°C ~ +55°C
- Supports OOB (out-of-band) powered by Innodisk (optional)
- Fanless Design



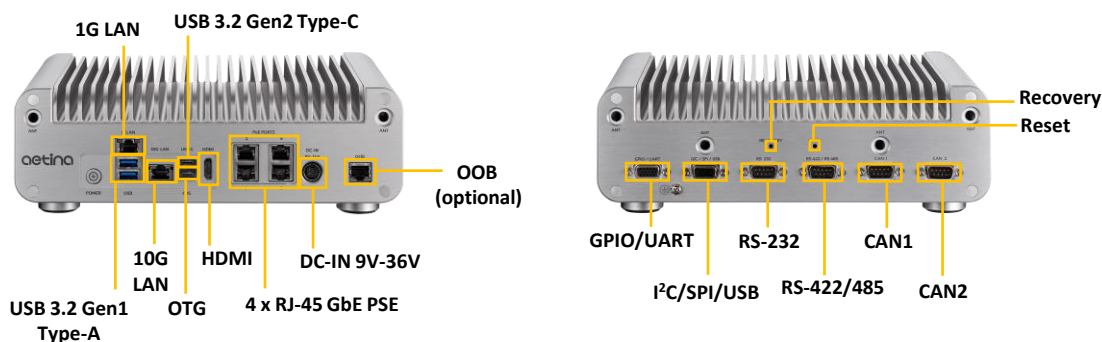
Specifications

Model Number	AIE-PX11-1-A2	AIE-PX12-1-A2	AIE-PX21-1-A2	AIE-PX22-1-A2
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	4 x RJ-45 GbE PSE	2 x RJ-45 GbE PSE	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	1 x USB 2.0 (DB-15), 2 x USB 3.2 Gen1 Type-A, 1 x USB 3.2 Gen2 Type-C, 1 x USB OTG Type-C			
I/O Interfaces	2 x I ² C 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 (isolated; CAN FD supported)			
Expansion	1 x M.2 B-Key 3042/3052 (LTE/4G/5G) 1 x M.2 E-Key 2230 (Wi-Fi/BT) 1 x M.2 M-Key 2280 (supports NVMe; PCIe Gen4 x4) 1 x micro-SD card holder 1 x micro-SIM card holder 1 x OOB (out-of-band, optional)			
MISC. Function	1 x Power button, 1 x Recovery button, 1 x Reset button			
Power Input / Connector	DC-in 9–36 VDC, 4-pin DC jack power connector			
Power Consumption	Idle: 7.5W Full Loading: 109W*		Idle: 12W Full Loading: 150W*	
	*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 (supports NVIDIA JetPack™ 6.2 and above)			
Certification	CE, FCC Class A, UKCA			

System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIE-PX11-1-A2	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-A2	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-A2	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-A2	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-R001	AIE-PX11 system w/ AGX Orin 32GB
92-CEPX12-R008	AIE-PX12 system w/ AGX Orin 32GB
92-CEPX21-R002	AIE-PX21 system w/ AGX Orin 64GB
92-CEPX22-R00B	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