

AI Inference / DeviceEdge

Jetson System AIE-PO22/AIE-PO32 AIE-PN32/AIE-PN42



Features

- Supports NVIDIA Jetson Orin Nano/NX Series
- 1 x M.2 B-Key/E-Key/M-Key (NVMe 128GB built-in)
- 2 x RJ-45 GbE Ports
- Wide Input Voltage Range 12 to 24 VDC
- Operating temperature -25°C ~ +55°C
- Fanless Design

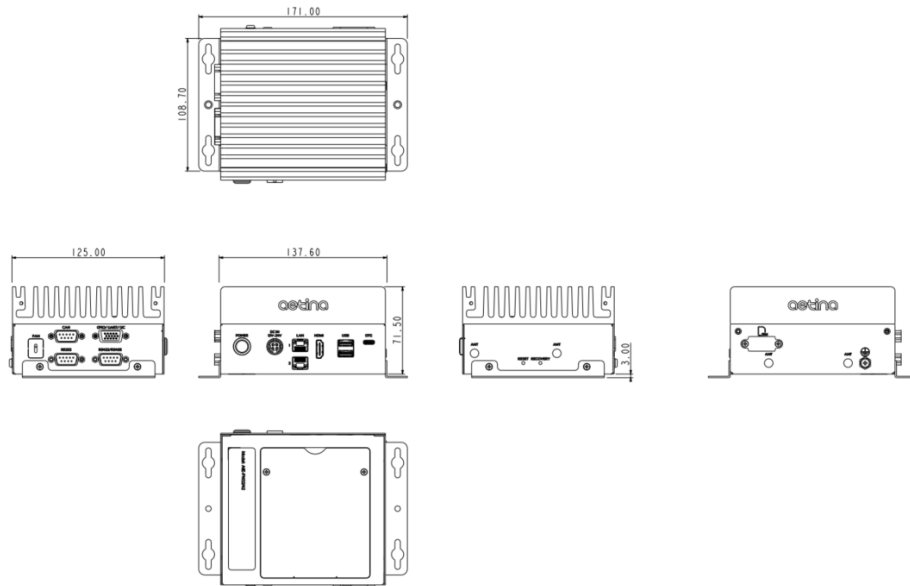


Specifications

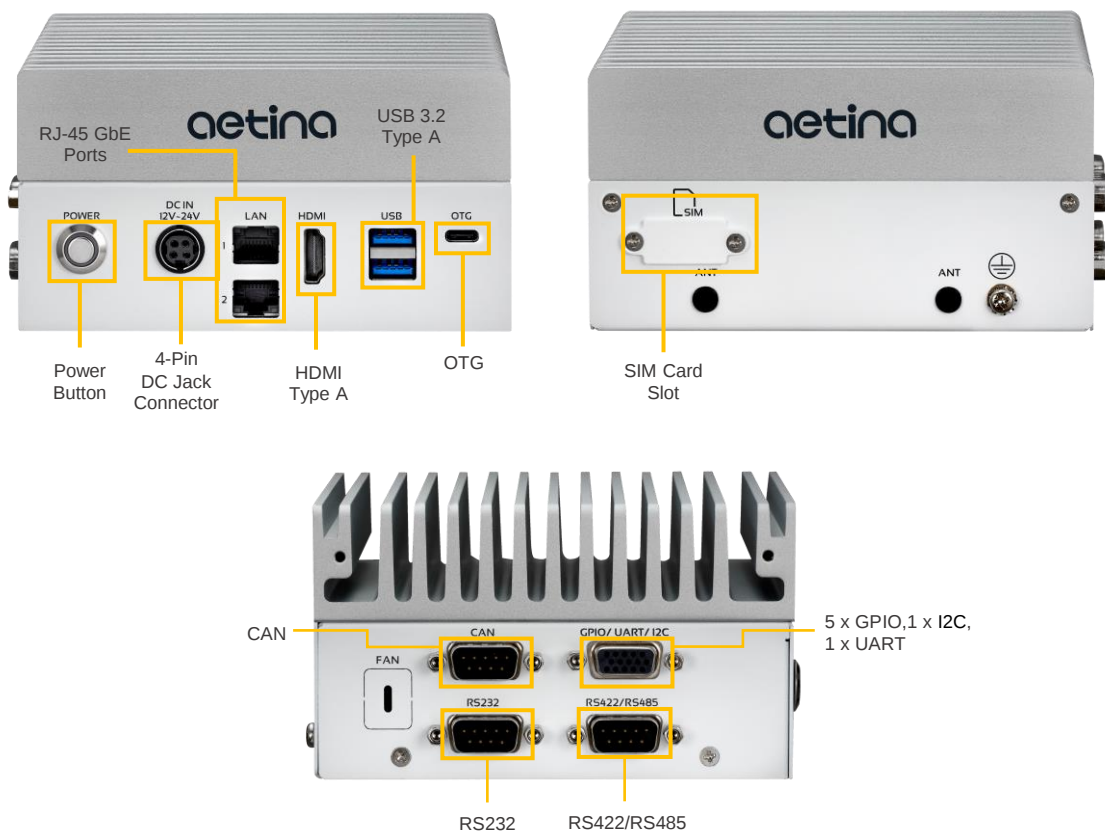
Model Number	AIE-PO22	AIE-PO32	AIE-PN32	AIE-PN42
Module Compatibility	NVIDIA Jetson Orin Nano 4GB	NVIDIA Jetson Orin Nano 8GB	NVIDIA Jetson Orin NX 8GB	NVIDIA Jetson Orin NX 16GB
AI Performance	20 TOPS	40 TOPS	70 TOPS	100 TOPS
GPU	512 Core NVIDIA Ampere, with 16 Tensor Cores	1024 Core NVIDIA Ampere, with 32 Tensor Cores	1024 Core NVIDIA Ampere, with 32 Tensor Cores	
CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit 1.5MB L2 + 4MB L3		6-core Arm® Cortex®-A78AE v8.2 64-bit 1.5MB L2 + 4MB L3	8-core Arm® Cortex®-A78AE v8.2 64-bit 2MB L2 + 4MB L3
Memory	4GB 64-bit LPDDR5 34 GB/s	8GB 128-bit LPDDR5 68 GB/s	8GB 128-bit LPDDR5 102.4 GB/s	16GB 128-bit LPDDR5 102.4 GB/s
Storage	1 x M.2 M-Key 2242 (NVMe 128GB built-in)			
Display	1 x HDMI 2.0 Type A			
LAN	2 x RJ-45 GbE Ports			
USB	2 x USB 3.2 Gen2 Type A (supports up to 10Gbps shared) 1 x OTG Type-C			
I/O Interfaces	5 x GPIO, 1 x UART, 1 x I²C, 1 x RS-232, 1 x RS-422/485 (2-in-1), 1 x CAN (isolation), 1 x microSIM Card Slot			
Expansion	1 x M.2 B-Key 3042/3052 (LTE/4G/5G) 1 x M.2 E-Key 2230 (WiFi/BT)			
MISC. Function	1 x Power Button, 1 x Recovery Button, 1 x Reset Button			
Power Input / Connector	DC-in 12-24VDC / 4-Pin DC Jack Power Connector			
Power consumption	Idle: 5.5 W Full Loading: 25.95* W		Idle: 6.4 W Full Loading: 35.45* W	
	*For more test condition information, please refer to user manual			
Dimension (W x D x H)	137.6 x 125 x 71.5 mm (5.41 x 4.92 x 2.81 in)			
Mounting	Wall Mount (optional) / Din Rail (optional)			
Net Weight	1.36 kg (3 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 Temp.: -25°C ~ +55°C (-13°F ~ +131°F) with 0.5 m/s air flow Storage Temp.: -40°C ~ +85°C (-40°F ~ +185°F)			
Humidity	95% @ 40°C (104°F) (non-condensing)			
OS Support	Ubuntu 20.04			
Certification	CE / FCC Class A / UKCA			



System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIE-PO22-1-A1	Orin Nano 4GB, 1 x HDMI, 2 x GbE, 2 x USB, 128GB SSD, B/E/M Key, 12 to 24 VDC input, -25°C ~ +55°C
AIE-PO32-1-A1	Orin Nano 8GB, 1 x HDMI, 2 x GbE, 2 x USB, 128GB SSD, B/E/M Key, 12 to 24 VDC input, -25°C ~ +55°C
AIE-PN32-1-A1	Orin NX 8GB, 1 x HDMI, 2 x GbE, 2 x USB, 128GB SSD, B/E/M Key, 12 to 24 VDC input, -25°C ~ +55°C
AIE-PN42-1-A1	Orin NX 16GB, 1 x HDMI, 2 x GbE, 2 x USB, 128GB SSD, B/E/M Key, 12 to 24 VDC input, -25°C ~ +55°C

Packing List

Item/Part Number	Description
92-CEPO22-R001	AIE-PO22 system w/ Orin Nano 4GB
92-CEPO32-R001	AIE-PO32 system w/ Orin Nano 8GB
92-CEPN32-R001	AIE-PN32 system w/ Orin NX 8GB
92-CEPN42-R001	AIE-PN42 system w/ Orin NX 16GB
53-0F0000-0003	100-240V 60W 12V 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
3102000037N000	UK power cord
55-BEPN32-Z000	Wall Mount Kit
55-AEPN32-Z000	Din Rail Kit

Peripheral (Optional)

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