

AI Inference / DeviceEdge

Jetson System AIE-KO22/AIE-KO32



Features

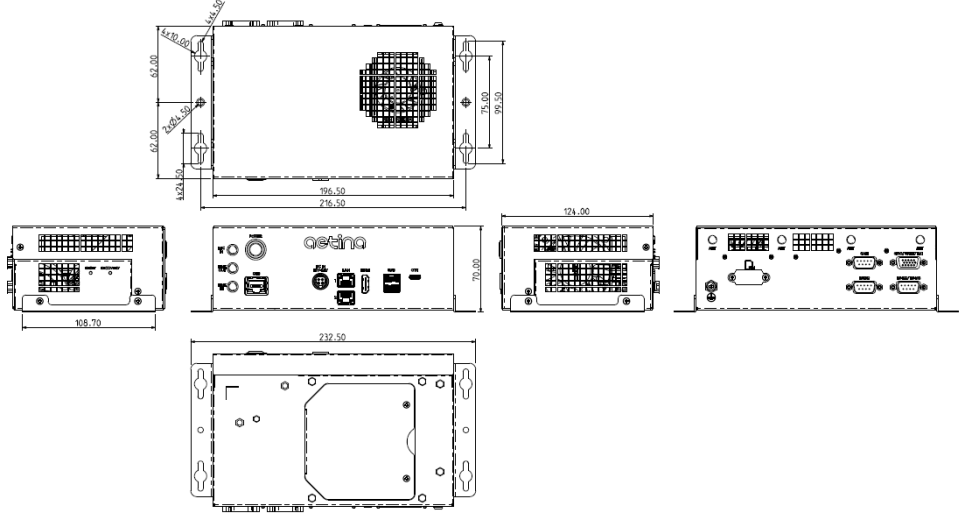
- Supports NVIDIA Jetson Orin Nano Super Mode
- 1 x M.2 B-Key/E-Key/M-Key (NVMe 128GB built-in)
- 2 x RJ-45 GbE Ports
- Wide Input Voltage Range 12 to 24 VDC
- Operating temperature -25°C ~ +70°C
- Supports OOB (out-of-band) powered by Innodisk (optional)



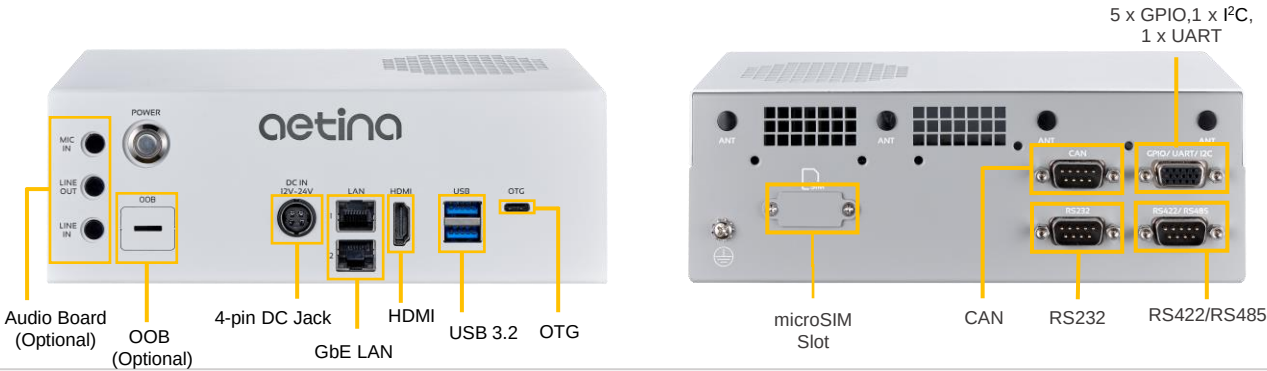
Specifications

Model Number	AIE-KO22	AIE-KO32
Module Compatibility	NVIDIA Jetson Orin Nano 4GB	NVIDIA Jetson Orin Nano 8GB
AI Performance	34 TOPS	67 TOPS
GPU	512 Core NVIDIA Ampere, with 16 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	
Memory	4GB 64-bit LPDDR5 51 GB/s	8GB 128-bit LPDDR5 68 GB/s
Storage	1 x M.2 M-Key 2242 (NVMe 128GB built-in)	
Display	1 x HDMI 2.0 Type A	
Audio	Line-out / Line-in / Mic (optional with daughter board)	
RTC	With super capacitor, battery (optional)	
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 I ² C, 1 x RS-232, 1 x RS-422/485 (2-in-1), 1 x CAN (isolation; support CAN FD), 1 x OOB (optional), 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) 1 x M.2 M-Key 2242 (NVMe 128GB built-in)	
MISC. Function	1 x Power Button / Recovery Button / Reset Button	
Power Input / Connector	DC-in 12-24VDC / 4-Pin DC Jack Power Connector	
Power consumption	Idle: 6.4 W Full Loading: 40* W	
	*For more test condition information, please refer to user manual	
Dimension (W x D x H)	196.5 x 124 x 68 mm (7.73 x 4.88 x 2.67 in)	
Mounting	Wall Mount (optional) / Din Rail (optional)	
Net Weight	1.102 kg (2 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 ~ +70°C (-13°F ~ +158°F) with 0.5 m/s air flow Storage Temp.: -40°C ~ +85°C (-40°F ~ +185°F)	
	*With full CPU+GPU stressing: System non-throttling at 60C with 40W TDP mode (MAXN)	
Humidity	95% @ 40°C (104°F) (non-condensing)	
Software Support	Linux (Support Jetpack 5.0 above)	
Certification	CE / FCC Class A / UKCA	

System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIE-KO22-1-S1	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 ~ +70°C
AIE-KO32-1-S1	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 ~ +70°C

Packing List

Item/Part Number	Description
92-CEKO22-J005	AIE-KO22 system w/ Orin Nano 4GB
92-CEKO32-J008	AIE-KO32 system w/ Orin Nano 8GB
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-BECN32-Z000	Wall Mount Kit
55-AEKN32-Z000	Din Rail Kit

Peripheral (Optional)

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