

# AI Inference / DeviceEdge

## Jetson System AIE-CO21/AIE-CO31 AIE-CN31/AIE-CN41



### Features

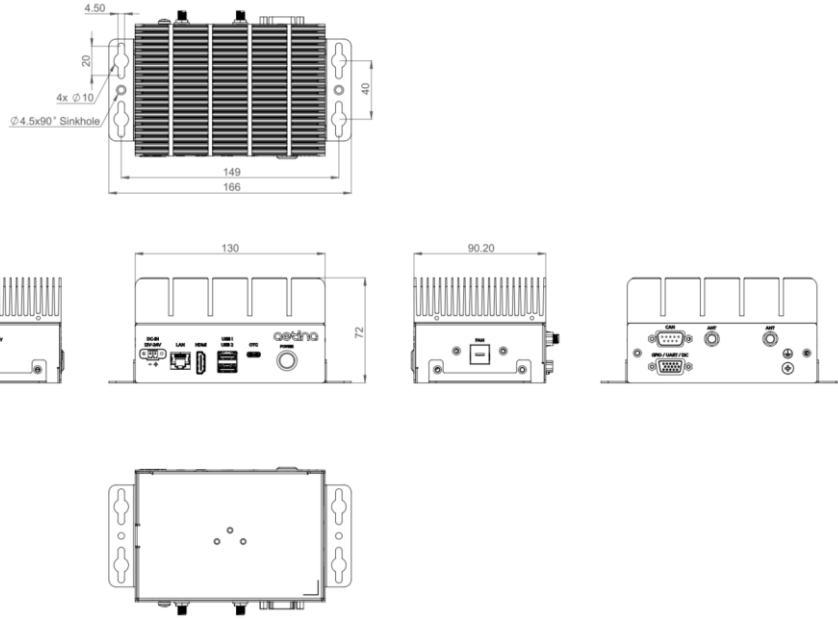
- Supports NVIDIA Jetson Orin Nano/NX Series
- 1 x M.2 E-Key/M-Key (128GB built-in)
- 1 x RJ-45 GbE Port
- Wide Power Input Range 12 to 24 VDC
- Operating temperature -25°C ~ +55°C
- Fanless Design



### Specifications

Model Number	AIE-CO21	AIE-CO31	AIE-CN31	AIE-CN41
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 (128GB built-in)			
Display	1 x HDMI 2.0 Type A			
RTC	With super capacitor, battery (optional)			
LAN	1 x RJ-45 GbE Port			
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 <sup>2</sup> C, 1 x CAN (Isolation; support CAN FD)			
Expansion	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, 1 x Recovery Button, 1 x Reset Button 1 x CAN 2.0b with isolation			
Power Input / Connector	DC-in 12-24 VDC / 2-Pin Terminal Block			
Power consumption	Idle: 3.4 W Full Loading: 25.08* W		Idle: 3.7 W Full Loading: 35.5* W	
	*For more test condition information, please refer to user manual			
Dimension (W x D x H)	130 x 90.2 x 72 mm (5.11 x 3.55 x 2.83 in)			
Mounting	Wall Mount (optional) / Din Rail (optional)			
Net Weight	0.927 kg (2.044 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)			
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-CO21-1-A1	Orin Nano 4GB, 1 x HDMI, 1 x GbE, 2 x USB, 128GB SSD, E/M Key, 12 to 24 VDC input, -25°C ~ +55°C
AIE-CO31-1-A1	Orin Nano 8GB, 1 x HDMI, 1 x GbE, 2 x USB, 128GB SSD, E/M Key, 12 to 24 VDC input, -25°C ~ +55°C
AIE-CN31-1-A1	Orin NX 8GB, 1 x HDMI, 1 x GbE, 2 x USB, 128GB SSD, E/M Key, 12 to 24 VDC input, -25°C ~ +55°C
AIE-CN41-1-A1	Orin NX 16GB, 1 x HDMI, 1 x GbE, 2 x USB, 128GB SSD, E/M Key, 12 to 24 VDC input, -25°C ~ +55°C

## Packing List

Item/Part Number	Description
92-CECO21-R001	AIE-CO21 system w/ Orin Nano 4GB
92-CECO31-R001	AIE-CO31 system w/ Orin Nano 8GB
92-CECN31-R001	AIE-CN31 system w/ Orin NX 8GB
92-CECN41-R001	AIE-CN41 system w/ Orin NX 16GB
53-0F0000-0002	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-BECN31-Z000	Wall Mount Kit
55-AECN31-Z000	Din Rail Kit

## Peripheral (Optional)

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