

AI Inference / DeviceEdge

Jetson Platform AIB-MO22/AIB-MO32 AIB-MN32/AIB-MN42



Features

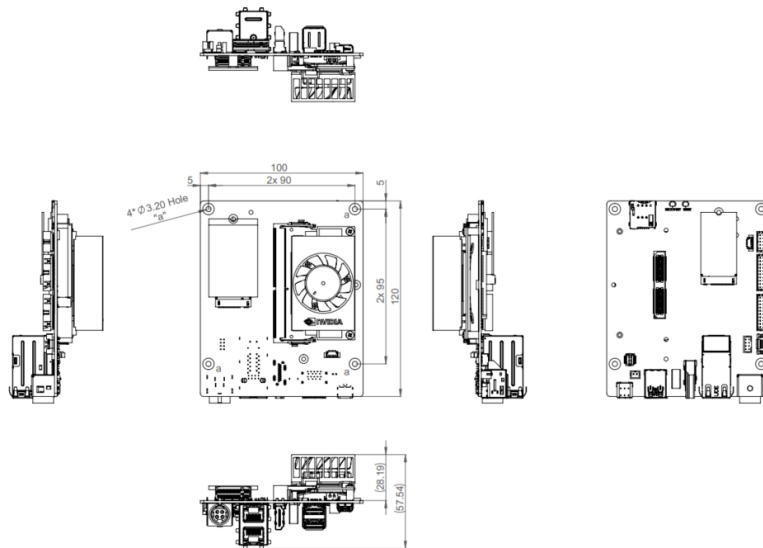
- Supports NVIDIA Jetson Orin Nano/NX Series
- 1 x M.2 B-Key/E-Key/M-Key (NVMe 128GB built-in)
- 2 x RJ-45 GbE Ports
- Wide Input Voltage Range 12 to 24 VDC
- Supports OOB (out-of-band) powered by Innodisk (optional)
- Operating temperature -25°C ~ +80°C



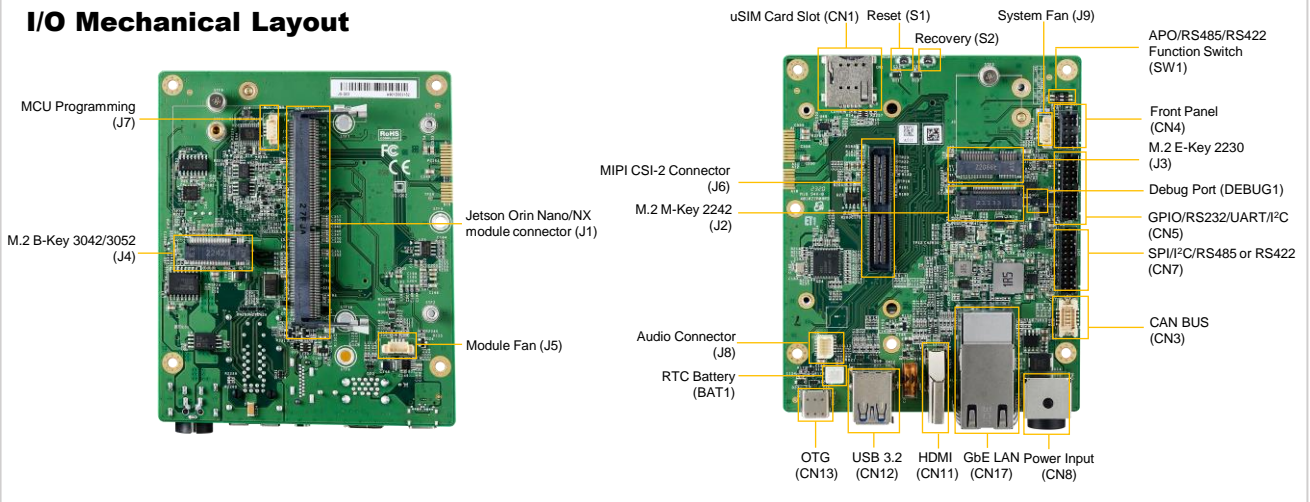
Specifications

Model Number	AIB-MO22	AIB-MO32	AIB-MN32	AIB-MN42
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			
Audio	Line-out / Line-in / Mic (optional with daughter board)			
RTC	With super capacitor, battery (optional)			
Camera Input	1 x 8-Lane MIPI Expansion Connector (120-Pin)			
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 SPI, 1 x I2S, 3 x I2C, 1 x UART, 1 x UART (Debug Only), 1 x RS-232, 1 x CAN (Isolation; support CAN FD), 1 x RS-422/485 (2-in1), 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 Recovery / 1 x Reset Button			
Power Consumption	Idle: 7 W Full Loading: 28.68* W		Idle: 7.3 W Full Loading: 39* W	
	*For more test condition information, please refer to user manual			
Power Input / Connector	DC-in 12 to 24 VDC / 4-Pin DC Jack Power Connector			
Dimension (W x D x H)	120 x 100 x 57.54 mm (4.73 x 3.94 x 2.27 in)			
Net Weight	0.195 kg (0.43 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 ~ +80°C (-13°F ~ +176°F) 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
AIB-MO22-1-A1	Orin Nano c4GB, 1 x HDMI, 2 x GbE, 2 x USB, 128GB SSD, B/E/M Key, 12 to 24 VDC input, -25°C ~ +80°C
AIB-MO32-1-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 ~ +80°C
AIB-MN32-1-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 ~ +80°C
AIB-MN42-1-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 ~ +80°C

Packing List

Item/Part Number	Description
92-6BMO22-4001	AIB-MO22 carrier board w/ Orin Nano 4GB
92-6BMO32-4001	AIB-MO32 carrier board w/ Orin Nano 8GB
92-6BMN32-4001	AIB-MN32 carrier board w/ Orin NX 8GB
92-6BMN42-4001	AIB-MN42 carrier board 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
20-100000-0000	Battery wire Panasonic CR2032 3V/225mA L=45mm

Peripheral (Optional)

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