

AI Inference / DeviceEdge

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



Features

- Support NVIDIA® Jetson Orin NX™ 8GB/16GB
- Wide Power Input Range 12 to 24VDC
- Storage supports external 128GB M.2 2242 NVMe
- 1 x B-Key/1 x E-Key/1 x M-Key slot
- 2 x RJ-45 GbE Ports
- -25°C ~ + 80°C operating temperature
- Support OOB (out-of-band) powered by Innodisk (optional)
- Support recovery/backup function

Specifications

Model Number	AIB-MO22/32	AIB-MN32/42
Module Compatibility	Nvidia Jetson ORIN NANO 4G / 8G	Nvidia Jetson ORIN NX 8G / 16G
AI Performance	20 TOPS / 40 TOPS	70 TOPS / 100 TOPS
GPU	512 Core Ampere, with 16 Tensor Cores 1024 Core Ampere, with 32 Tensor Cores	1024 Core Ampere, with 32 Tensor Cores
CPU	6-core Arm Cortex-A78AE 1.5MB L2 + 4MB L3	6-core Arm Cortex-A78AE 1.5MB L2 + 4MB L3 8-core Arm Cortex-A78AE 2MB L2 + 4MB L3
Memory	4GB 64-bit LPDDR5 34 GB/s 8GB 128-bit LPDDR5 68 GB/s	8GB 128-bit LPDDR5 @ 2133 HMz 102.4 GB/s 16GB 128-bit LPDDR5 @ 2133 HMz 102.4 GB/s
Storage	128GB M.2 2242 NVMe PCIe SSD	
Display	1x HDMI 2.0 Type A	
Audio	Line-out/Line-in/Mic (opt. with Daughter Board)	
RTC	With super capacitor, battery optional	
Camera Input	1x 8-Lane MIPI Expansion Connector (120 Pin)	
LAN	2 x RJ-45 GbE Ports	
USB	2 x USB 3.2 Gen2 Type A 1x USB2.0 Type-C (OTG Only)	
I/O Interfaces	5 x GPIO, 1 x SPI, 3 x I2C, 1 x UART1, 1 x UART3 (Debug Only), 1 x RS-232, 1x CAN (Isolation), 1 x RS-422/485	
Expansion	1 x M.2 B-Key 3042/3052 (USB3.2) LTE/5G w/ sim holder: cellular function 1 x M.2 E-Key 2230 (PCIe x1 / USB2.0): WIFI/BT Module 1 x M.2 M-Key (NVMe PCIe x4) 2242: Storage	
MISC. Function	1 x Recovery / Reset	
Power Consumption	TBD	
Power Input / Connector	DC-in 12 to 24 VDC / 4-pin DC Jack Power Connector	
Dimension (W x D x H)	120 x 100 mm	
Net Weight	TBD	
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 / Storage Temp.: -25°C ~ + 85°C	
Humidity	95% @ 40°C Related Humidity, Non-condensing	
OS Support	Ubuntu 20.04	
Certification	CE/FCC Class A, IEC 62368	

Ordering Information

Model Name	Carrier w/Jetson Module
AIB-MO22-1-A1	With ORIN NANO 4G, 1 x HDMI, 2 x USB-A, 1 x USB-C(OTG only), 2 x RJ-45 GbE PORT, 1 x FAN, 12 -24V DC INPUT, -25°C to +80°C
AIB-MO32-1-A1	With ORIN NANO 8G, 1 x HDMI, 2 x USB-A, 1 x USB-C(OTG only), 2 x RJ-45 GbE PORT, 1 x FAN, 12 to 24V DC INPUT, -25°C to +80°C
AIB-MN32-1-A1	With ORIN NX 8G, 1 x HDMI, 2 x USB-A, 1 x USB-C(OTG only), 2 x RJ-45 GbE PORT, 1 x FAN, 12 to 24V DC INPUT, -25°C to +80°C
AIB-MN42-1-A1	With ORIN NX 16G, 1 x HDMI, 2 x USB-A, 1 x USB-C(OTG only), 2 x RJ-45 GbE PORT, 1 x FAN, 12 to 24V DC INPUT, -25°C to +80°C

