

AIB-NW01

Edge AI System with Nvidia Jetson Orin NX/
Orin Nano module



Product Features

- Compatible with NVIDIA® Orin NX & Orin Nano
- Ideal for intelligent edge applications
- Support M.2 3042/3052 5G module
- 4 x USB3.1 Type A / 2 x Gigabit LAN / 2 x COM / 1 x HDMI
- High AI computing performance for GPU-accelerated processing
- Support M.2 2242/2280 NVMe SSD
- Support M.2 2230 WIFI/BT module
- Support wide temperature environment

Specification

System Information

Watchdog Timer	Built-in Nvidia Orin Module
System Memory	NX 16GB / NX 8GB / Nano 8GB / Nano 4GB 128-bit LPDDR5
Processor	NVIDIA ARM Cortex-A78AE v8.2 64-bit CPU, NVIDIA Ampere architecture with 1024/512 cores and 32 Tensor cores GPU

Expansion

M.2	M.2 E-key socket*1 for 2230 WIFI/BT module; M.2 B-key socket*1 for 3042/3052 5G module
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Storage

M.2	128GB M.2 2280 NVMe SSD
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Ethernet

Ethernet Interface	2 x RJ-45 10/100/1000 Mbps Ethernet
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Development Environment

OS	Linux Ubuntu 20.04
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Certification

Certification Information CE, FCC Class A

External I/O connector

USB 4 x USB3.1 Type A

COM 2 x COM (switch by Jumper to RS-232 or RS485) 1 x CAN BUS (optional)

Display 1 x HDMI Type A

Mechanical & Environmental

Power Requirement DC 10~24V Terminal Block 2 pin
DC 10~36V (optional)

Dimension (W x L x H) 125mm*196mm*66.1mm (w/o wall mount bracket)

Weight 1.4 kg

Operating Temp. -20°C ~ 60°C, (-4°F ~ 140°F) according to IEC60068-2 with 0.5 m/s AirFlow

Storage Temp. -40°C ~ 80°C, (-40°F ~ 176°F)

Operating Humidity 40°C @ 95% Relative Humidity, Non-condensing

Construction Aluminum extrusion and heavy-duty steel

Mounting Kit Wall Mount Bracket (Optional)

Ordering Information

Ordering Information AIB-NW01-NA04-A1R : AIB-NW01-NA04-A1R
AIB-NW01-NA08-A1R : AIB-NW01-NA08-A1R
AIB-NW01-NX08-A1R : AIB-NW01-NX08-A1R
AIB-NW01-NX16-A1R : AIB-NW01-NX16-A1R