

# AIB-NINX-S

Compact & Fan-less Edge AI Platform



## Product Features

- Up to 100 TOPS AI Performance
- Fanless Design
- RS232 / RS485 / I2C
- 3xM2 M Key, Gen 4x4 / Gen 4x2 / Gen 4x1
- 4xUSB3.2 Gen2

## Specification

### System Information

**System Memory** NVIDIA® Jetson Orin™ NX 8GB  
8GB LPDDR5/  
NVIDIA® Jetson Orin™ NX 16GB  
16GB LPDDR5

**Processor** NVIDIA® Jetson Orin™ NX 8GB  
6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU  
1.5MB L2 + 4MB L3/  
NVIDIA® Jetson Orin™ NX 16GB  
8-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU  
2MB L2 + 4MB L3

**GPU** 1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores

### AI Performance

**AI Performance** NVIDIA® Jetson Orin™ NX 8GB  
70 TOPS/  
NVIDIA® Jetson Orin™ NX 16GB  
100 TOPS

### Expansion

**M.2** M.2  
1xM.2 2280/3080 M Key PCIe Gen4x4 Slot  
1xM.2 2280 M Key PCIe Gen4x2 Slot  
1xM.2 2280 M Key PCIe Gen4x1 Slot

**Storage**

**Storage** Supports External NVMe

**External I/O connector**

**Network** 1×RJ45 for 10/100/1000Mbps Ethernet  
DHCP Client

**Display** 2×HDMI2.0

**Optional Product Features Extension by Daughter Board**

**SDK / Software** By request

**NX 5G** 5G Mobility Network ( Supports 5G / 4G / 3G SIM Module)

**NX OOB MK.2** **\*\*Out-Of-Band Management Functions:**  
Allxon swiftDR for Power Cycling:  
Edge Device Force Shutdown  
Edge Device Power Switch ON/OFF  
Edge Device Power ON/OFF Detection  
Edge Device Reset  
**Extension I/O:**  
1x USB 2.0  
1×I2C  
1×UART  
2×GPIO  
**\*Out-Of-Band Management Network Interface:**  
Ethernet: 1-port 10/100 Mbps RJ45 Port  
Wireless: Support 4G LTE Module with SIM Card Slot & Wi-Fi USB Dongle  
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**NX PSE** **\*\*IP Camera**  
4×RJ45 for 10 / 100 / 1000Mbps Ethernet with IEEE802.3af Compliant  
**\*PSE Power Supply**  
4×15W ( IEEE802.3af )"

## Assured Systems

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