

# AIB-NIAO

AI box pc NVIDIA AGX Orin 270/275 TOPS



## Product Features

- Jetson AGX Orin 32GB , Jetson AGX Orin 64GB
- 5ch Gigabit LAN port
- 4 x USB 3.0
- 32GM/64GB LPDDR4
- Operating Temp. -25°C ~ 70°C (-13°F ~ 158°F)

## Specification

### System Information

<b>System Memory</b>	32GM/64GB LPDDR4
<b>Processor</b>	Jetson AGX Orin 32GB / Jetson AGX Orin 64GB
<b>GPU</b>	NVIDIA Ampere 1792-CUDA® Core / NVIDIA Ampere 2048-CUDA® Core

### AI Performance

<b>AI Performance</b>	200 TOPS/ 275 TOPS
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### Expansion

<b>PCIe</b>	2x Mini PCIe
<b>M.2</b>	1xM.2 M Key 1xM.2 B Key
<b>Expansion</b>	1xmicro SD Slot 4xNano SIM Socket

## Storage

**Storage** 64GB eMMC 5.1

## Development Environment

**OS** Ubuntu 20.04

## External I/O connector

**USB** 4 x USB3.0 (type-A)  
1 x USB2.0 (type-C)

**COM** 2 x CAN FD  
16 x GPIO (8x In, 8xOut)  
3 x RS232  
2 x RS485/422  
1 x Debug  
4 x SYNC I/O (SYNC\_IN/SYNC\_OUT/SYNC\_PPS)

**Network** 5 x 10/100/1000 RJ45 Powered LAN

**Display** 1 x HDMI 2.0 (typeA)

**Function key** 1 x Power KEY  
1x Recovery KEY

**User Expansion** 1 x M.2 M Key 2280 size NVMe SSD  
1x M.2 B Key for 5G

**Video Encode** H.265  
1x 4K60, 3x4k30, 6x 1080p60, 12x 1080p30  
H.264  
1x 4K60, 2x 4K30, 5x 1080p60, 11x 1080p30/  
  
H.265  
2x 4K60, 4x4k30, 8x 1080p60, 16x 1080p30  
H.264  
2x 4K60, 4x 4K30, 7x 1080p60, 15x 1080p3

**Video Decode** H.265  
1x 8K30, 2x 4K60, 4x4k30, 9x 1080p60, 18x 1080p30  
H.264  
1x 4K60, 2x 4K30, 5x 1080p60, 11x 1080p30 /  
  
H.265  
1x 8K30, 3x 4K60, 6x4k30, 12x 1080p60, 24x 1080p30  
H.264  
1x 4K60, 3x 4K30, 7x 1080p60, 14x 1080p30

## Mechanical & Environmental

**Vibration Test** 3 Grms,10Hz~500Hz,1h/axis

**Power Requirement** DC 12V-48V

**Dimension (W x L x H)** 233 x 144x 80 mm

**Weight** 2.3 kg

**Operating Temp.** -20°C ~ 60°C (-4°F ~ 140°F)

**Storage Temp.**

-40°C ~ 80°C (-40°F ~ 176°F)

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**Storage Humidity**

0%-90% non-condensing

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