

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

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

AI Performance

AI Performance	200 TOPS/ 275 TOPS
----------------	-----------------------

Expansion

PCIe	2x Mini PCIe
M.2	1xM.2 M Key 1xM.2 B Key
Expansion	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)
----------------------	------------------------------

Storage Humidity	0%-90% non-condensing
-------------------------	-----------------------

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660