

EAI-131

Industrial Grade AI Inference System For 5G Edge
With NVIDIA® Jetson Orin NX/Nano



■ Features

- NVIDIA® Jetson Orin NX/Nano
- AI Performance Up To 100 TOPS
- Up To 1024-core NVIDIA CUDA GPU With 32 Tensor Cores
- Support For 4G LTE/ 5G Sub6 & WiFi
- 2x GigE IEEE 802.3 af PoE/ at PoE+ LAN, 2x USB 2.0, 1x HDMI, 2x RS232/422/485 (Optional COM2 For CAN 2.0)
- Support Super Mode on NVIDIA Jetpack 6.2 (by SKU)
- TrustZone With Security Boot & OS Protected

■ Specifications

Processor System

CPU	8-core 2.0GHz/6-core 1.5GHz NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU
GPU	Up To 1024-core NVIDIA Ampere Architecture GPU With 16~32 Tensor Cores

Memory

Technology	128-bit/64-bit LPDDR5
Capacity	16/8/4 GB (By SKU)

Ethernet

Speed	10/100/1000 Mbps
Interface	2x GbE RJ45
PoE	GbE PoE LANs With Support For IEEE 802.3af/at PoE(+) Under Max. 30W (Surge Protection Up To 2KV)

Storage

Type	M.2
Installation	1x M.2 2280 M-Key NVMe (PCIe x4) default 128G

I/O

COM	2x RS232/422/485
CAN	Optional COM2 For CAN 2.0
Audio	Line-in, Line-out
USB	2x USB2.0
Display	1x HDMI 2.0A/B @ 4Kp60 With Screw Lock
DIO	4x DI (Support PNP/ NPN / Dry Contact) & 4x DO (Support Dry / Sink), IEC 61121-2, 24V With Maximum 200mA
Reset/Power	1x Reset Button 1x Power Button

Expansion Interface

M.2	1x M.2 304(5)2 B-Key Socket (USB 3.0) or 5G Sub-6 With Dual SIM Socket Reserved 1x M.2 2230 E-Key Socket (USB2.0 & PCIe) for WiFi (By SKU)
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Fanless

Yes
(Fanless Design With Corrugated Aluminum)

Cooling

Processor	Passive CPU Heatsink
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Power

Power Type	ATX
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Power Supply Voltage	System Power Input Rated DC 12V
Connector	1x 2-pin Terminal Block

Environment

Operating Temperature	-40°C~70°C
Storage Temperature	-40°C~80°C
Relative Humidity	5%~90% Operating; 5%~95% Non-Operating

Miscellaneous

Internal RTC with Li Battery	Yes
TPM	Onboard TPM 2.0

Mechanical

Dimension (W x D x H)	201 x 196 x 65mm
Weight	2.6 kg
Mounting	Wallmount (Optional VESA mount), Chassis With Intrusion Design

Driver Support

Linux	Linux Open Source On NVIDIA SDK 6.2
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Security

TrustZone & Security Boot:	U-bootloader & OS Protected
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Certification

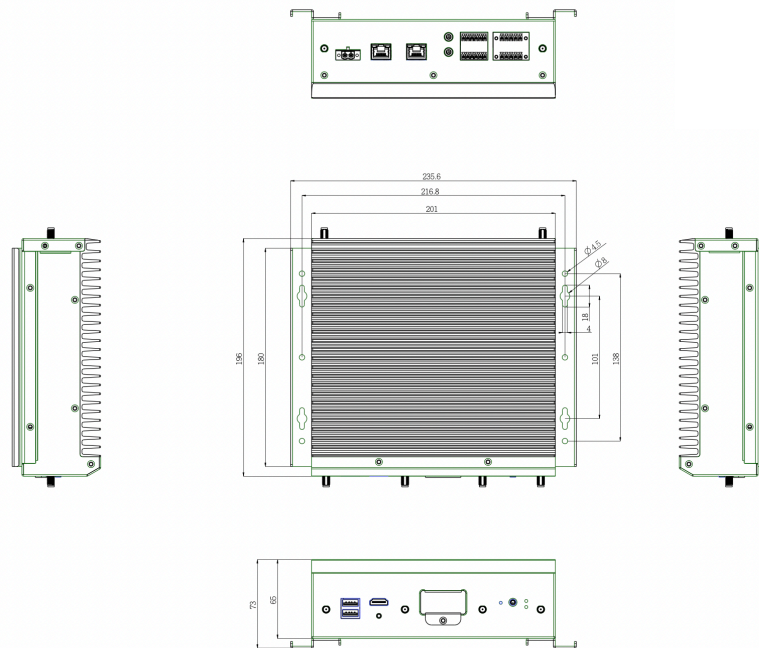
EMC	CE/FCC Class A, UL
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Product I/O View



- | | | | |
|------------------------|-----------------------|---------------------------|----------------------|
| A 2x USB 2.0 | D Rest Button | G DIO | J Power Input |
| B 1x HDMI | E Power on/off | H Line-in/Line-out | |
| C SIM Card slot | F 2x COM | I 2x PoE | |

Dimensions (W x D x H) 201 x 196 x 65mm



Ordering Information

- EAI-1131A** IPC With NVIDIA Jetson Orin NX (100 TOPs) With 16GB LPDDR5 Memory, 1x M.2 2280 M-Key (PCIe x4) with NVMe 128G, 2x GbE PoE LAN, 1x M.2 304(5)2 B-Key For 5G Sub6, 1x M.2 2230 E-Key For WiFi, 2x COM For RS232/422/485, 1x CAN 2.0 (Optional)
- EAI-1131B** IPC With NVIDIA Jetson Orin NX (70 TOPs) With 8GB LPDDR5 Memory, 1x M.2 2280 M-Key (PCIe x4) with NVMe 128G, 2x GbE PoE LAN, 1x M.2 304(5)2 B-Key For 5G Sub6, 1x M.2 2230 E-Key For WiFi, 2x COM For RS232/422/485, 1x CAN 2.0 (Optional)
- EAI-1131C** IPC With NVIDIA Jetson Orin Nano (40 TOPs) With 8GB LPDDR5 Memory, 1x M.2 2280 M-Key (PCIe x4) with NVMe 128G, 2x GbE PoE LAN, 1x M.2 304(5)2 B-Key For 5G sub6, 1x M.2 2230 E-Key For WiFi, 2x COM For RS232/422/485, 1x CAN 2.0 (Optional), supports SuperMode on NVIDIA Jetpack 6.2 (Jetson Orin NX 8GB up to 67 TOPs)
- EAI-1131D** IPC With NVIDIA Jetson Orin Nano (20 TOPs) With 4GB LPDDR5 Memory, 1x M.2 2280 M-Key (PCIe x4) with NVMe 128G, 2x GbE PoE LAN, 1x M.2 304(5)2 B-Key For 5G sub6, 1x M.2 2230 E-Key For WiFi, 2x COM For RS232/422/485, 1x CAN 2.0 (Optional), supports SuperMode on NVIDIA Jetpack 6.2 (Jetson Orin NX 4GB up to 34 TOPs)

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