

# 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)
- TPM 2.0 onboard
- TrustZone With Security Boot & OS Protected

## ■ Preliminary 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

LAN Ports	2
Speed	10/100/1000 Mbps
Interface	RJ45
PoE	GigE 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 (PCIe x4)

### 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

### Button

Reset	1x Button
Power	1x 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
Power Supply Voltage	System Power Input Rated DC 12V
Connector	1x 3-pin Terminal Block

### Environment

Operating Temperature	0°C to 40°C -40°C~70°C with LTE -40°C~75°C without LTE -40°C~70/75°C without AC-DC power adapter
Storage Temperature	-40°C To 70°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 65 x 196 mm
Weight	2.6 KG
Mounting	Wallmount (Optional VESA mount), Chassis With Intrusion Design

### Driver Support

Linux	Linux Open Source On NVIDIA SDK
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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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## Ordering Information

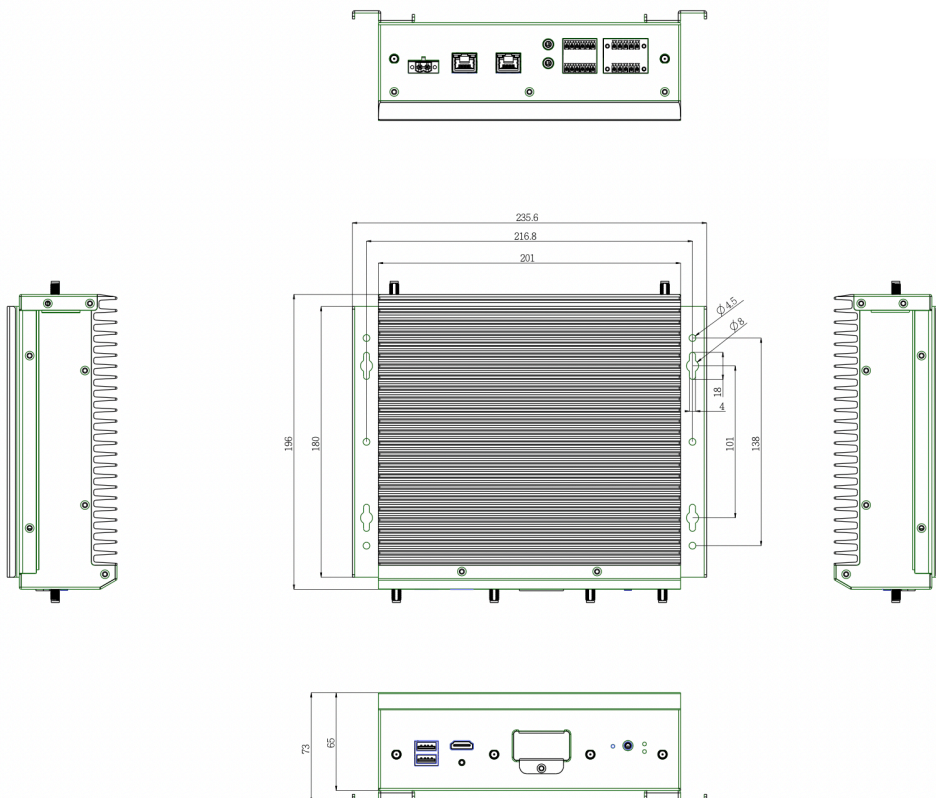
<b>EAI-131A</b>	IPC With NVIDIA Jetson Orin NX (100 TOPs) With 16GB LPDDR5 Memory, 1x M.2 2280 M-Key (PCIex4), 2x GigE PoE LAN, 1x M.2 B 304(5)2 For 5G Sub6, 1x M.2 2230 E-Key For WiFi, 2x COM For RS232/422/485, 1x CAN 2.0 (Optional)
<b>EAI-131B</b>	IPC With NVIDIA Jetson Orin NX (70 TOPs) With 8GB LPDDR5 Memory, 1x M.2 2280 M-Key (PCIex4), 2x GigE PoE LAN, 1x M.2 B 304(5)2 For 5G Sub6, 1x M.2 2230 E-Key For WiFi, 2x COM For RS232/422/485, 1x CAN 2.0 (Optional)
<b>EAI-131C</b>	IPC With NVIDIA Jetson Orin Nano (40 TOPs) With 8GB LPDDR5 Memory, 1x M.2 2280 M-Key (PCIex4), 2x GigE PoE LAN, 1x M.2 B 304(5)2 Key For 5G sub6, 1x M.2 2230 E-Key For WiFi, 2x COM For RS232/422/485, 1x CAN 2.0 (Optional)
<b>EAI-131D</b>	I IPC With NVIDIA Jetson Orin Nano (20 TOPs) With 4GB LPDDR5 Memory, 1x M.2 2280 M-Key (PCIex4), 2x GigE PoE LAN, 1x M.2 B 304(5)2 Key For 5G sub6, 1x M.2 2230 E-Key For WiFi, 2x COM For RS232/422/485, 1x CAN 2.0 (Optional)

## Product I/O View

Reference images. Please contact Lanner for more information.



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



V.1-2024.3.5

**Lanner**

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[contact@lannerinc.com](mailto:contact@lannerinc.com) | [www.lannerinc.com](http://www.lannerinc.com)