

EAI-I132

Preliminary

AI Inference System With NVIDIA® Jetson Orin NX/Nano



Preliminary Specifications

Platform

CPU	NVIDIA® Jetson Orin NX/Nano
SOM TDP	Up to 25W
Core Number	8-core/6-core
Chipset	SoC
GPU	Up To 1024-core NVIDIA Ampere Architecture GPU With 16~32 Tensor Cores

System Memory

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

Ethernet

Interface	1x GbE RJ45 2x GbE RJ45 w/ PoE+ (under Max 60W)
Speed	3x 10/100/1000 Mbps

I/O Interface

Reset Button	1
Power Button	1
Serial	2x Isolated RS232/422/485 (DB9)
Display	1x HDMI
USB	2x USB 3.0 Type A
DIO	4x DI, 2x DO
Audio	1x Line-in & 1x Line out
Antenna	4 x Antenna hole for LTE/5G Sub6 2 x Antenna hole for Wifi

Storage

Onboard Slots	1x M.2(NVMe) 2242/ 2280 M-Key (default 2280, 128G)
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Expansion

M.2	1x M.2 2230 E-Key for WiFi 1x M.2 3042/3052 B-Key for 5G Sub6/LTE w/ SIM
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Features

- NVIDIA® Jetson Orin NX/Nano
- Up To 1024-core NVIDIA CUDA GPU With 32 Tensor Cores
- 1x GbE RJ45, 2x GbE RJ45 w/ PoE+
- 2x COM, 2x USB 3.0, 1x HDMI, 4x DI & 2x DO, 2x Audio jack
- 1x M.2 2230 E-Key for WiFi, 1x M.2 3042/3052 B-Key for 5G Sub6/LTE
- Support NVIDIA SDK 6.2
- Wide range temperature of -40°C~70°C

Miscellaneous

Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	Onboard TPM 2.0

Cooling

Processor	Passive Heatsink
System	Fanless system
Heater	Yes

Environmental Parameters

Temperature	-40°C~70°C w/ wireless module
Humidity (RH)	5~90% Operating 5~ 95% Non-Operating

System Dimensions

WxDxH	201 x 196 x 65 mm
Weight	TBD
Form Factor	Wallmount (Optional VESA mount), Chassis With Intrusion Design

Power

Type/Watts	12V/24V
Iutput	1x 1*2 terminal block Power Input Rated DC 12V/24V

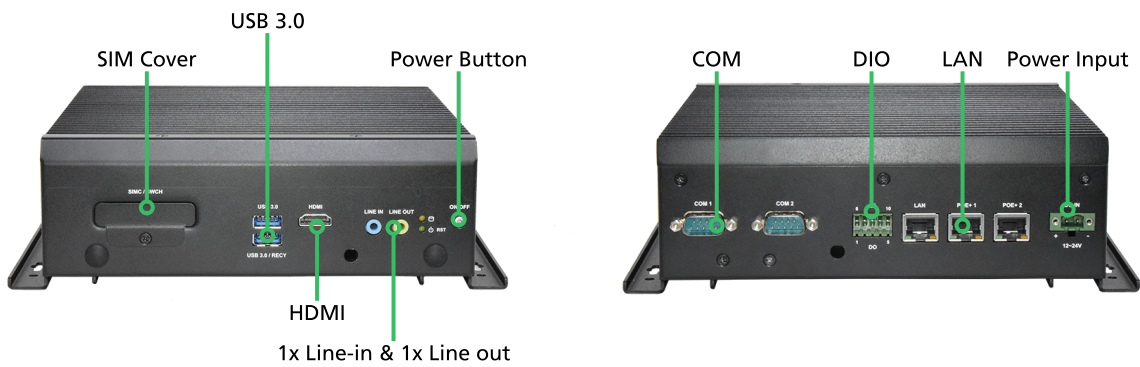
OS

Linux	NVIDIA Jetpack 6.2 Ubuntu 22.0.4 LTS
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Certification

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



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

TBD

Ordering Information

SKU	CPU	Storage	Default Port	Expansion	Power
EAI-I132A	NVIDIA Jetson Orin NX With 16GB LPDDR5 Memory	1x M.2(NVMe) 2242/ 2280 M-Key	3x GbE RJ45 (one with PoE+) 2x COM 2x USB 3.2 Gen1 2x Audio jack 1x HDMI 4x DI & 2x DO	1x M.2 2230 E-Key for WiFi 1x M.2 3042/3052 B-Key for 5G Sub6/LTE w/ SIM	Rating DC 12V/24V
EAI-I132B	NVIDIA Jetson Orin NX With 8GB LPDDR5 Memory				
EAI-I132C	NVIDIA Jetson Orin Nano With 8GB LPDDR5 Memory				
EAI-I132D	NVIDIA Jetson Orin Nano With 4GB LPDDR5 Memory				