

EAC

4000



Compact AI Computing System Powered by
NVIDIA® Jetson Orin™ NX/ Jetson Orin Nano™



▲ Traffic Vision



- NVIDIA Jetson Orin™ NX/Orin Nano™, up to 100 TOPS AI performance
(Support Super Mode for Jetson Orin Nano and Orin NX)
- Up to 16GB LPDDR5 RAM with NVMe SSD up to 1TB
- 1 GigE LAN, 4 USB 3.1, 1 HDMI 2.0
- 2 COM RS-232/422/485
- 1 Full-size Mini PCIe with SIM for 4G/Wi-Fi/BT
- Optional Allxon OOB Support

▼ Auto Optical Inspection



▲ Delivery Robot



Vecow



Specifications

System

CPU	XR16 : 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU XR08/AR08/AR04 : 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
GPU	XR16/XR08/AR08 : NVIDIA Ampere architecture w/1024 NVIDIA CUDA® cores, 32 Tensor cores AR04 : NVIDIA Ampere architecture w/512 NVIDIA® CUDA® cores, 16 Tensor cores
DL Accelerator	XR16 : 2 NVDLA Engines XR08 : 1 NVDLA Engines AR08/AR04 : None
Memory	XR16 : 1 LPDDR5 DRAM, 16GB XR08/AR08 : 1 LPDDR5 DRAM, 8GB AR04 : 1 LPDDR5 DRAM, 4GB
Software Support	- Linux - NVIDIA JetPack™ SDK

I/O Interface

USB	4 USB 3.1 Type A
Serial	2 COM RS-232/422/485
Micro USB	1 Micro USB Flash Port
Button	- 1 Power Button - 1 Force Recovery Button - 1 Reset Button
LED	Power, SSD
SIM	1 Nano SIM Card Socket
Antenna	2 Antenna for WiFi/4G

Expansion

Mini PCIe	1 Mini PCIe (Full-size, PCIe, USB 2.0)
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Graphics

Video Encode	XR16/XR08 : - HEVC : 1x 4K @60, 3x 4K @30, 6x 1080p @60, 12x 1080p @30 - H.264 : 1x 4K @60, 2x 4K @30, 5x 1080p @60, 11x 1080p @30
Video Decode	XR16/XR08 : - HEVC : Up to 1x 8K @30, 2x 4K @60, 4x 4K @30, 9x 1080p @60, 18x 1080p @30 - H.264 : Up to 1x 4K @60, 2x 4K @30, 5x 1080p @60, 11x 1080p @30 AR08/AR04 : - HEVC : Up to 1x 4K @60, 2x 4K @30, 5x 1080p @60, 11x 1080p @30 - H.264 : Up to 1x 4K @30, 3x 1080p @60, 7x 1080p @30
Interface	1 HDMI 2.0, up to 4K@60

Storage

M.2	1 M.2 Key M Socket (2242, PCIe 4.0 x4)
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Ethernet

LAN	10/100/1000 Base-T GigE LAN, RJ45 Connector
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Power

Power Input	12V DC Power Input
Power Interface	3-pin 3.5mm Terminal Block V+, V-

Out-of-Band Management (EAC-4000-OOB)

MCU	Nuvoton NUC980
Interface	- 1 10/100Mb Ethernet LAN, RJ45 Connector - 1 Full-Size Mini PCIe Socket (USB) - 1 Nano SIM
Remote Management	Support Remote Power ON/OFF, Reset and Power Cycling, Cloud Serial Console. Powered By Allion.

Others

TPM	Infineon SLB9673 supports TPM 2.0 (Optional)
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Environment

Operating Temperature	15W TDP Mode : -25°C to 55°C (-13°F to 131°F) 25W TDP Mode : -25°C to 45°C (-13°F to 113°F) 40W TDP Mode (Orin NX Super Mode) : -25°C to 45°C (-13°F to 113°F), with fansink
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @55°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.6, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2, EN62368-1, MIL-STD-810G

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Mechanical

Dimensions	EAC-4000 : 112 x 103 x 45 mm (4.41" x 4.05" x 1.73") EAC-4000-OOB : 112 x 103 x 66 mm (4.41" x 4.05" x 2.6")
Weight	EAC-4000 : 0.6 kg (1.32 lb) EAC-4000-OOB : 0.8kg (1.76lb)
Mounting	- Wallmount - DIN Rail (Optional)

Order Information

Model	Platform	RAM	LAN	USB 3.1	Serial	SIM	HDMI	Antenna
EAC-4000 (F**)XR16-SXXX*(OOB)	Jetson Orin NX	16GB	1	4	2	1	1	2
EAC-4000 (F**)XR08-SXXX*(OOB)		8GB						
EAC-4000-AR08-SXXX*(OOB)	Jetson Orin Nano	8GB	1	4	2	1	1	2
EAC-4000-AR04-SXXX*(OOB)		4GB						

*NVMe SSD is required in the default configuration. Please confirm the required capacity with the Vecow team.

**EAC-4000F models are fansink models for high TDP conditions (Orin NX Super Mode, 40W)

NVMe SSD List

S128	128GB NVMe SSD	S512	512GB NVMe SSD
S256	256GB NVMe SSD	S01T	1TB NVMe SSD

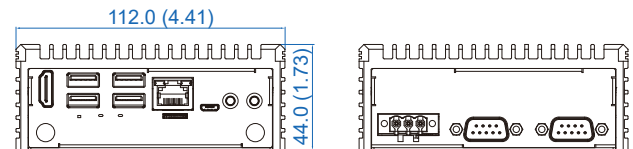
Accessories

PWA-60WP3-WT-12V	60W, 12V, 90V AC to 264V AC Power Adaptor for 3 PIN 5.0mm Terminal Block, -30°C~+70°C
PWA-135W-WT-12V	135W, 12V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
M.2 Storage Module	M.2 Key M PCIe Storage Module
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

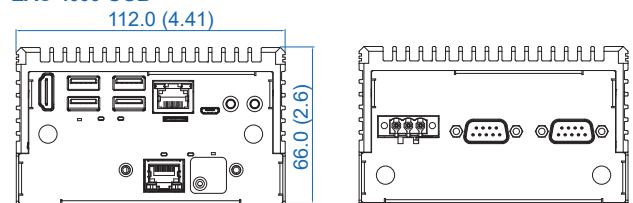
Dimensions & Drawing

Unit : mm (inch)

EAC-4000



EAC-4000-OOB



EAC-4000F (Support Orin NX Super Mode)

