

EAC

4000



Arm-based Edge AI Computing

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



▲ Traffic Vision



- NVIDIA Jetson Orin™ NX/Nano, up to 100 TOPS AI performance
- Up to 16GB LPDDR5 RAM, pre-installed 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
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
Serial	2 COM RS-232/422/485

Expansion

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

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)
-----	--

Ethernet

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

Power

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

Others

OOB	Out-of-band mgmt by Nuvoton NUC980 (Optional, by Module)
TPM	Infineon SLB9673 supports TPM 2.0 (Optional)

Mechanical

Dimensions	112 x 103 x 45 mm
Weight	0.6 kg (1.32 lb)
Mounting	- Wallmount - DIN Rail (Optional)

Environment

Operating Temperature	15W TDP Mode : -25°C to 55°C 25W TDP Mode : -25°C to 45°C
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

* All product information may subject to change without prior notice.
* The rights of all brand names, product names and trademarks belong to their respective owners.
Copyright © 2024 Vecow Co., Ltd. All rights reserved.

Vecow info@vecow.com



Order Information

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

*A NVMe SSD is included in default. Please refer to NVMe SSD List to select NVMe SSD capacity.

NVMe SSD List

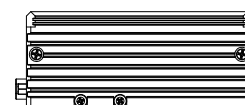
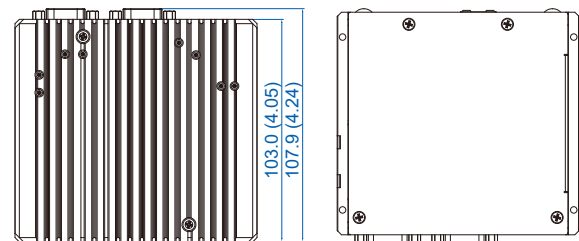
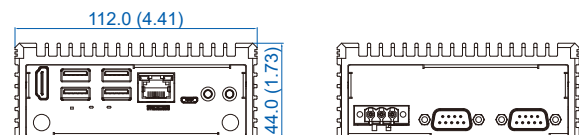
S128	128GB NVMe SSD	S512	512GB NVMe SSD
S256	256GB NVMe SSD	S01T	1TB NVMe SSD

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/Key B PCIe Storage Module
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit : mm (inch)



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