

# 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

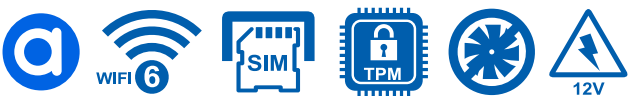
▼ Auto Optical Inspection



▲ Delivery Robot



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33  
info@alcom.be | www.alcom.be  
Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands  
Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl



# 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



# 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

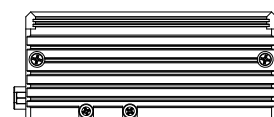
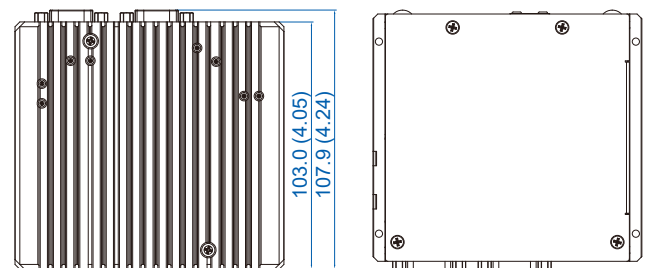
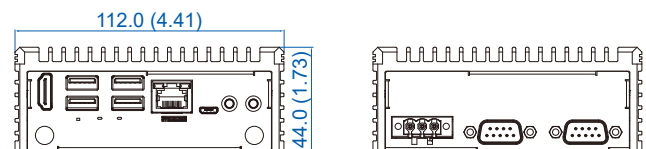
S128	128GB NVMe SSD	S512	512GB NVMe SSD
S256	256GB NVMe SSD	S01T	1TB NVMe SSD

## 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)



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33  
info@alcom.be | www.alcom.be  
Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands  
Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl