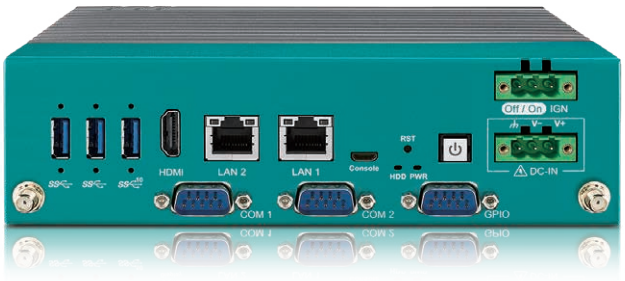
EAC 6000

Embedded AI Computing System Powered by NVIDIA® Jetson Orin™ NX



Medical Imaging





- Small form factor NVIDIA® Jetson Orin™ NX/Orin Nano™ with Super Mode supports up to 157 TOPS AI performance
- Advanced NVIDIA Ampere architecture with 1024 NVIDIA CUDA® cores and 32 Tensor cores
- 6 GigE LAN with 4 PoE+, 3 USB 3.1, 2 COM RS-232/422/485
- Supports multiple 5G/4G/LTE/WiFi/BT/GPRS/UMTS connections
- Supports 4 GMSL2 automotive cameras with Fakra-Z
- 1 CAN Bus supports Flexible Data-rate, 7-bit GPIO
- DC 9V to 50V wide range power input, Ignition Power Control
- Supports 24/7 secure remote monitoring, control, and optional Out-Of-Band management for disaster recovery empowered by Allxon



Mobile Robots

High-speed AOI



PoE GMSL CAN SW

Vecow

NVIDIA Preferred Partner

Specifications

System

CPU	**EAC-6000-R16 :** 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU **EAC-6000-R08 :** 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU **EAC-6000-AR08 :** 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU **EAC-6000-AR04 :** 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor cores
DL Accelerator	**EAC-6100-R16 :** 2x NVDLA Engines **EAC-6100-R08 :** 1x NVDLA Engine **EAC-6100-AR08/AR04 :** NA
Memory	**EAC-6100-R16 :** 1 16GB LPDDR5 DRAM **EAC-6100-R08/AR08 :** 1 8GB LPDDR5 DRAM **EAC-6100-AR04 :** 1 4GB LPDDR5 DRAM
Software Support	- Linux - NVIDIA JetPack™ SDK

I/O Interface

USB	- 1 USB 3.1 Gen 2 - 2 USB 3.1
Serial	2 COM RS-232/422/485
CAN Bus	1 CAN Bus supports CAN FD
GPIO	7-bit GPIO
Micro USB	- 1 Micro USB Console Port - 1 Micro USB Recovery Port
Button	- 1 Power Button - 1 Force Recovery Button - 1 Reset Button
LED	Power, SSD
SIM	2 SIM Card Socket
Antenna	**EAC-6000 :** 6 Antenna for WiFi/4G/5G/LTE/GPRS/UMTS **EAC-6100/6200 :** 10 Antenna for WiFi/4G/5G/LTE/GPRS/UMTS

Expansion

M.2	- 2 M.2 Key B Socket (3042/3052, USB3) - 1 M.2 Key E Socket (2230, PCIe/USB)

Graphics

Interface	1 Digital Display : Up to 3840 x 2160 @60Hz
Video Encode	**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	**HEVC :** Up to 1x 8K @30, 2x 4K @60, 4x 4K @30, 9x 1080p @60 **H.264 :** Up to 1x 4K @60, 2x 4K @30, 5x 1080p @60, 11x 1080p @30

Camera (EAC-6100)

GMSL	4 Fakra-Z connectors for GMSL 1/2 automotive cameras

Storage

M.2	1 M.2 Key M 2280, up to 1TB NVMe SSD pre-installed
SD	1 Micro SD (External)

Ethernet

LAN 1 to LAN 2	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector (Optional X-coded M12 Connector)

PoE (EAC-6200)

LAN 3 to LAN 6	IEEE 802.3at (25.5W/48V) GigE PoE+ LAN, RJ45 Connector (Optional X-coded M12 Connector)

*Remind : Total PoE power budget support up to 100W at 25°C, 30W at 70°C

Power

Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control	16-mode Software Ignition Control
Remote Switch	3-pin Remote Switch Terminal Block

Optional

TPM	SLB 9673 XU2.0 FW26.10 with, I2C interface

Mechanical

Dimensions	**EAC-6000 :** 193 mm x 132 mm x 55 mm (7.6" x 5.2" x 2.17") **EAC-6100/6200 :** 193 mm x 132 mm x 80 mm (7.6" x 5.2" x 3.15")
Weight	**EAC-6000 :** 1.7 kg (3.74 lb) **EAC-6100/6200 :** 1.9 kg (4.19 lb)
Mounting	- Wallmount - DIN Rail (Optional)

Environment

Operating Temp.	**15W TDP Mode :** -25°C to 70°C (-13°F to 158°F), with 0.63 m/s air flow **25W TDP Mode :** -25°C to 55°C (-13°F to 131°F), with 0.63 m/s air flow
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810H, Method 516.8, Procedure I
Vibration	Operating, MIL-STD-810H, Method 514.8, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

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Vecow info@vecow.com

Order Information

Model Name	Platform	RAM	LAN	USB 3.1	Serial	GPIO	CAN	PoE+	GMSL	SIM	M.2
EAC-6000-R16 -SXXX*	Jetson Orin NX	16GB	2	3	2	7	-	-	-	2	3
EAC-6000-R08 -SXXX*		8GB									
EAC-6100-R16 -SXXX*		16GB	2	3	2	7	1	-	4	2	3
EAC-6100-R08 -SXXX*		8GB									
EAC-6200-R16 -SXXX*		16GB	6	3	2	7	1	4	-	2	3
EAC-6200-R08 -SXXX*		8GB									
EAC-6000-AR08-SXXX*	Jetson Orin Nano	8GB	2	3	2	7	-	-	-	2	3
EAC-6000-AR04-SXXX*		4GB									
EAC-6100-AR08-SXXX*		8GB	2	3	2	7	1	-	4	2	3
EAC-6100-AR04-SXXX*		4GB									
EAC-6200-AR08-SXXX*		8GB	6	3	2	7	1	4	-	2	3
EAC-6200-AR04-SXXX*		4GB									

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

NVMe SSD List

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

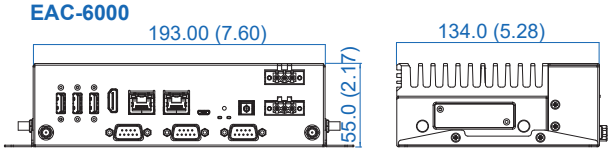
Accessories

PWA-120W1	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-160W-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
GMSL Camera Kit	GMSL Camera with Fakra-Z Connector
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

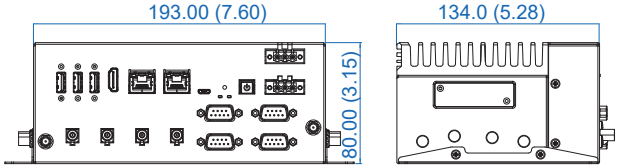
Dimensions & Drawing

Unit : mm (inch)

EAC-6000



EAC-6100



EAC-6200

