

**EAC**

**6000**



NVIDIA® Jetson Orin™ NX Embedded AI Computing System



^ Medical Imaging



- Small form factor NVIDIA® Jetson Orin™ NX supports up to 100 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

v High-speed AOI



^ Mobile Robots



**Vecow**

## Specifications

### System

CPU	<b>R16</b> : 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU <b>R08</b> : 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
GPU	1024-core NVIDIA Ampere™ architecture GPU with 32 Tensor cores
DL Accelerator	<b>R16</b> : 2x NVDLA Engine <b>R08</b> : 1x NVDLA Engine
Memory	<b>R16</b> : 1 16GB LPDDR5 DRAM <b>R08</b> : 1 8GB 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, 2 User Programmable
SIM	2 SIM Card Socket
Antenna	<b>EAC-6000</b> : 6 Antenna for WiFi/4G/5G/LTE/GPRS/UMTS <b>EAC-6100/6200</b> : 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)
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### Graphics

Interface	1 Digital Display : Up to 7680 x 4320 @30Hz
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
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### Storage

M.2	1 M.2 Key M 2280 NVMe SSD, 128GB
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)
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### PoE (EAC-6200)

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

### Mechanical

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

### Environment

Operating Temp.	<b>15W TDP Mode</b> : -25°C to 70°C (-13°F to 158°F) <b>25W TDP Mode</b> : -25°C to 55°C (-13°F to 131°F)
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-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

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## Order Information

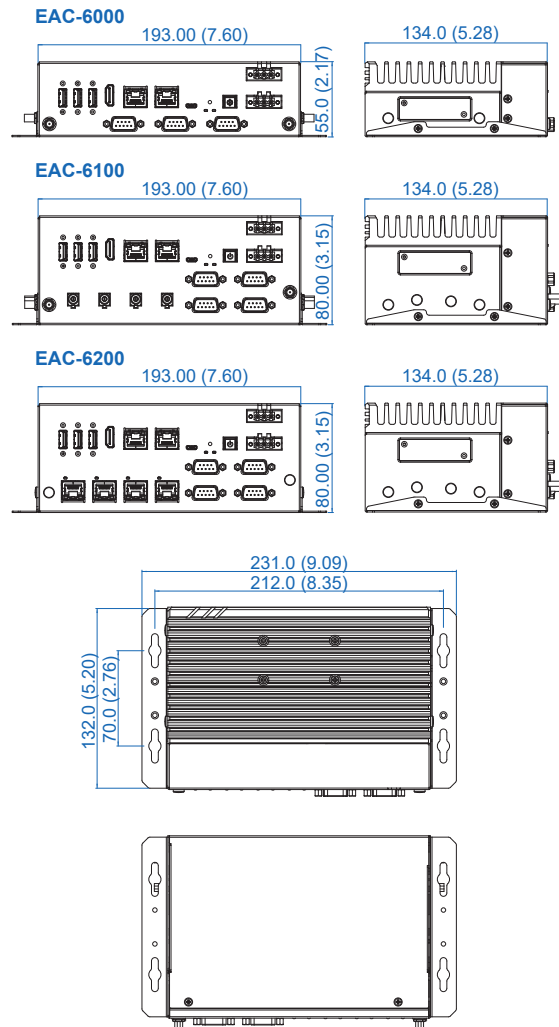
Model Name	Platform	RAM	LAN	USB 3.1	Serial	GPIO	CAN	PoE*	GMSL	SIM	M.2
EAC-6000-R16		16GB									
EAC-6000-R08		8GB	2	3	2	7	-	-	-	2	4
EAC-6100-R16	Jetson Orin NX	16GB	2	3	2	7	1	-	4	2	4
EAC-6100-R08		8GB									
EAC-6200-R16		16GB	6	3	2	7	1	4	-	2	4
EAC-6200-R08		8GB									

### 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)



## 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.

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