

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 | R16 : 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU R08 : 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU |
| GPU | 1024-core NVIDIA Ampere™ architecture GPU with 32 Tensor cores |
| DL Accelerator | R16 : 2x NVDLA Engine R08 : 1x NVDLA Engine |
| Memory | R16 : 1 16GB LPDDR5 DRAM R08 : 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 | 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 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 |
|------|--|

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) |
|----------------|---|

PoE (EAC-6200)

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

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 | 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) 25W TDP Mode : -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

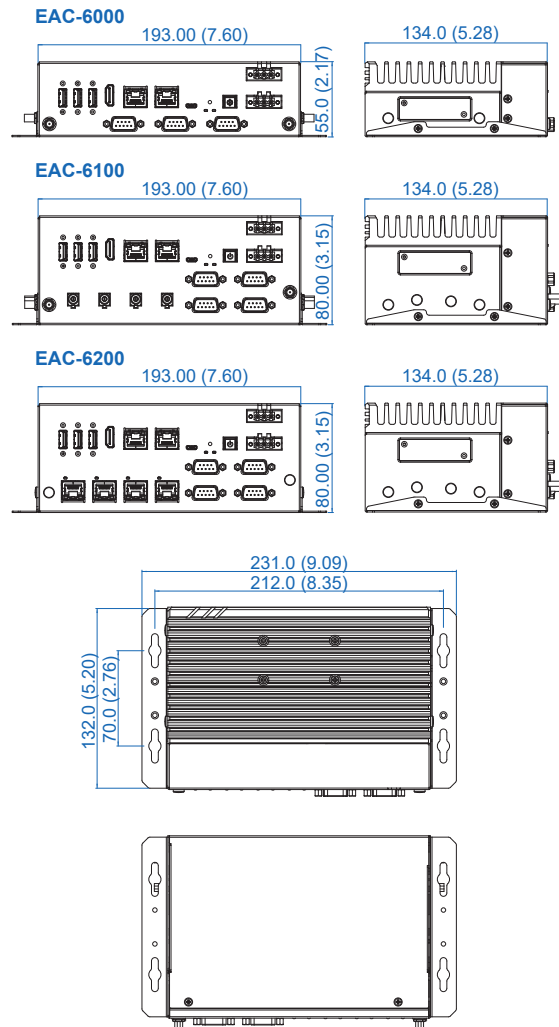
| Model Name | Platform | RAM | LAN | USB 3.1 | Serial | GPIO | CAN | PoE* | GMSL | SIM | M.2 |
|--------------|----------------|------|-----|---------|--------|------|-----|------|------|-----|-----|
| EAC-6000-R16 | | 16GB | 2 | 3 | 2 | 7 | - | - | - | 2 | 4 |
| EAC-6000-R08 | | 8GB | | | | | | | | | |
| 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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