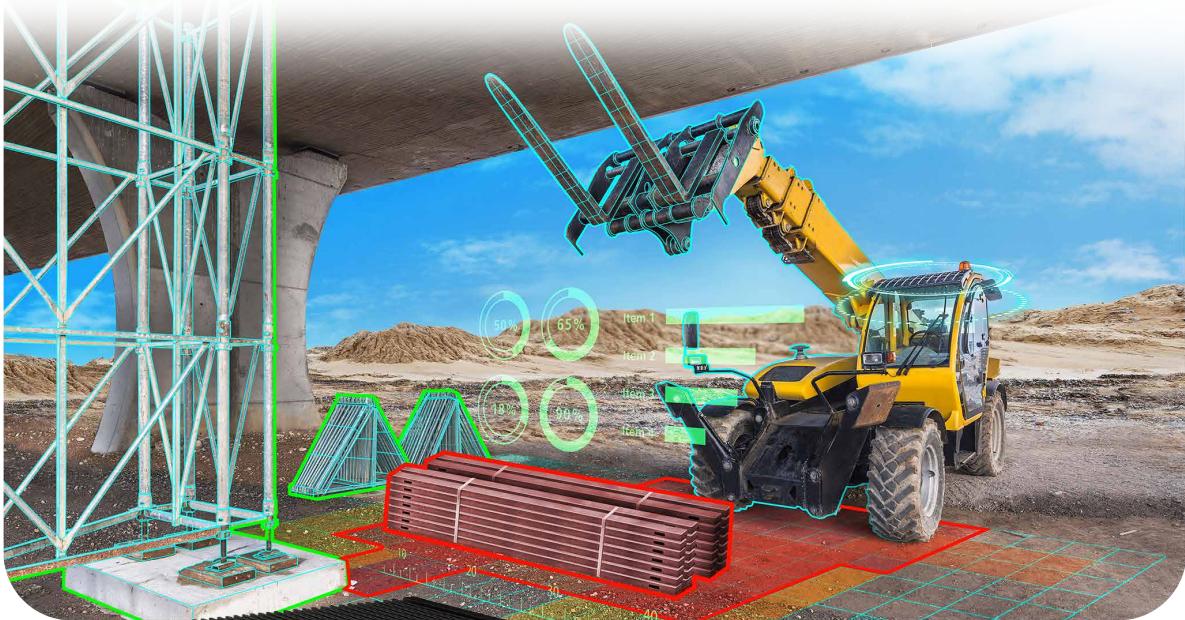


EAC 3000



NVIDIA® Jetson AGX Xavier™ Edge AI Computing System



▲ In-vehicle Computing



- Compact NVIDIA® Jetson AGX Xavier™ supports workstation-grade up to 32 TOPS AI performance with rich AI tools and workflows
- NVIDIA Volta architecture with 512 NVIDIA® CUDA® cores and 64 Tensor cores
- DC 9V to 50V wide range power input, Ignition Power Control
- 5 GigE LAN with 4 PoE+, 4 USB 3.0, 2 Digital Display
- Supports 8 GMSL2 automotive cameras with Fakra-Z
- 2 CAN Bus support Flexible Data-rate, 2 COM RS-232/422/485
- M.2 supports 5G/4G/LTE/WiFi/BT/GPS
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon

▼ Medical Image



▲ Robotic Control



Specifications

System

| | |
|------------------|--|
| CPU | 8-core NVIDIA Carmel ARM [®] v8.2 64-bit CPU |
| GPU | NVIDIA Volta architecture with 512 NVIDIA [®] CUDA [®] cores and 64 Tensor cores |
| DL Accelerator | 2x NVDLA Engines |
| Memory | 1 LPDDR4x DRAM, Up to 64GB |
| Software Support | - Linux - NVIDIA JetPack SDK |

I/O Interface

| | |
|-----------|---|
| USB | 4 USB 3.0 Type A |
| Serial | 2 COM RS-232/422/485 |
| CAN Bus | 2 CAN Bus support CAN FD (Optional Isolation) |
| Micro USB | - 1 Micro USB console debug port - 1 Micro USB OS flash port |
| Button | - 1 Power Button - 1 Force Recovery Button - 1 Reset Button |
| LED | Power, HDD, 2 User Programmable |
| SIM | 2 SIM Card Socket |
| Antenna | 6 Antenna for WiFi/4G/5G/LTE/GPRS/UMTS |

Expansion

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

Graphics

| | |
|--------------|---|
| Interface | 2 Digital Display, up to 4Kx2K @30Hz |
| Video Encode | - HEVC : Up to 4x4K @60, 8x4K @30, 16x1080p @60, 32x1080p @30 - H.264 : Up to 4x4K @60, 8x4K @30, 14x1080p @60, 30x1080p @30 |
| Video Decode | - HEVC : 2x8K @30, 6x4K @60, 12x4K @30, 26x1080p @60, 52x1080p @30 - H.264 : 4x4K @60, 8x4K @30, 16x1080p @60, 32x1080p @30 |

Camera

| | |
|------|---|
| GMSL | 8 Fakra-Z connectors for GMSL 1/GMSL 2 automotive cameras |
|------|---|

Storage

| | |
|------|------------------------------------|
| M.2 | 1 M.2 Key M Socket (2280, PCIe x2) |
| eMMC | 1 eMMC 5.1, 32GB |
| SD | 1 Micro SD (External) |

Ethernet

| | |
|-------|--|
| LAN 1 | 10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector |
|-------|--|

PoE

| | |
|----------------|--|
| LAN 2 to LAN 5 | IEEE 802.3at (25.5W/48V) GigE PoE ⁺ LAN, RJ45 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 | 212.6mm x 149.0mm x 60.4mm (8.37" x 5.87" x 2.38") |
| Weight | 2.4 kg (5.29 lb) |
| Mounting | - Wallmount - DIN Rail Mount (Optional) |

Environment

| | |
|-------------------|--|
| Operating Temp. | 30W TDP Mode : -20°C to 70°C (-4°F to 158°F), Fanless MAX TDP Mode : -20°C to 70°C (-4°F to 158°F), with Fan Sink |
| 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 | PoE ⁺ | USB 3.0 | M.2 | Serial | SIM | CAN | GMSL |
|--------------|-------------------|------|-----|------------------|---------|-----|--------|-----|-----|------|
| EAC-3000-R64 | Jetson AGX Xavier | 64GB | 5 | 4 | 4 | 3 | 2 | 2 | 2 | 8 |
| EAC-3000-R32 | | 32GB | | | | | | | | |

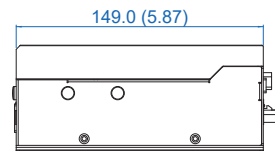
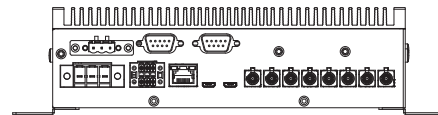
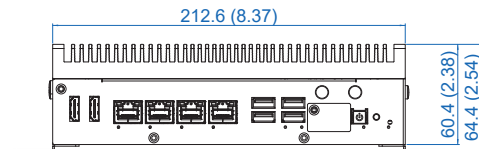
* EAC-3000F Series are Fan Sink Model for MAX TDP Mode

Accessories

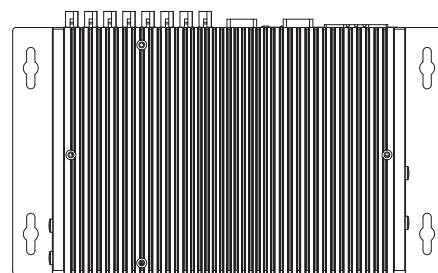
| | |
|--------------------|---|
| PWA-160WB-WT | 160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| PWA-180WB | 180W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block |
| PWA-280WB-WT | 280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| VESA Mount | VESA Mounting Kit |
| DIN-RAIL | DIN Rail and VESA Mounting Kit |
| GMSL Camera Kit | GMSL Camera with Fakra-Z connector |
| M.2 Storage Module | M.2 Key M/Key B PCIe Storage Module |
| 5G Module | 5G Module with Antenna |
| 4G Module | 4G/GPS Module with Antenna |
| WiFi & Bluetooth | WiFi & Bluetooth Module with Antenna |

Dimensions & Drawing

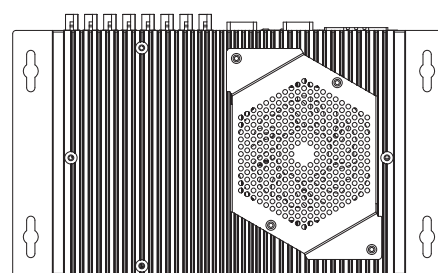
Unit : mm (inch)



EAC-3000



EAC-3000F



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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