- 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

NVIDIA® Jetson Orin™ NX Embedded AI Computing System
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: 16GB LPDDR5 DRAM, R08: 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
- Power Button: 1 Power Button, 1 Force Recovery Button, 1 Reset Button
- LED: Power, SSD, 2 User Programmable
- SIM: 2 SIM Card Socket
- Antenna: 6 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
- Video Decode: HEVC: Up to 1x 8K @30, 2x 4K @60, 4x 4K @30, 9x 1080p @60

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
- Vibration: Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
- EMC: CE, FCC, EN50155, EN50121-3-2

Order Information

Model Name | Platform | RAM | LAN | USB 3.1 | Serial | GPIO | CAN | PoE | GMSL | SIM | M.2
---|---|---|---|---|---|---|---|---|---|---|---
EAC-6000-R16 | 16GB | 2 | 2 | 7 | - | - | 2 | 4
EAC-6000-R08 | 8GB | - | - | - | - | - | - | - | - | - | -
EAC-6100-R16 | Jetson Orin | 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)

EAC-6000
- Dimensions: 193.00 (7.60) x 134.00 (5.28)
- Weight: 1.7 kg (3.74 lb)

EAC-6100
- Dimensions: 231.00 (9.09) x 193.00 (7.60)
- Weight: 1.9 kg (4.19 lb)

EAC-6200
- Dimensions: 212.00 (8.35) x 193.00 (7.60)
- Weight: 1.9 kg (4.19 lb)