

EAC

5000/5100



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

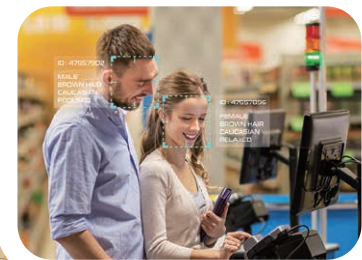


Automated Agricultural Machinery



- Advanced NVIDIA® Jetson AGX Orin™ platform delivers up to 275 TOPS AI performance
- The latest NVIDIA Ampere architecture, featuring with 2048 NVIDIA CUDA® cores and 64 Tensor cores
- Supports 8 GMSL 1/2 automotive cameras with Fakra-Z connectors
- 1 PCIe Gen 3 x8 expansion slot supports optional multiple 10GigE/PoE LAN/USB connections
- 6 GigE LAN with 4 PoE+, 1 Digital Display supports 4K60
- 2 Isolated CAN Bus support Flexible Data-rate, 2 COM RS-232/422/485, 5 USB 3.1
- Supports device remote management by Allxon
- DC 9V to 50V wide range power input, Ignition Power Control

Autonomous Mobile Robots



Real-Time Video Analytics



Vecow



Specifications

System

| | |
|------------------|--|
| CPU | R32 : 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU R64 : 12-core Arm® Cortex®-A78AE v8.2 64-bit CPU |
| GPU | R32 : 1792-core NVIDIA Ampere architecture GPU with 56 Tensor Cores R64 : 2048-core NVIDIA Ampere architecture GPU with 64 Tensor Cores |
| DL Accelerator | 2x NVDLA Engines |
| Memory | R32 : 1 32GB LPDDR5 DRAM R64 : 1 64GB LPDDR5 DRAM |
| Software Support | - Linux - NVIDIA JetPack™ SDK |

I/O Interface

| | |
|-----------|--|
| USB | - 1 USB 3.2 Gen 2, supports up to 10Gbps - 4 USB 3.1, support up to 5Gbps |
| Serial | 2 COM RS-232/422/485 |
| CAN Bus | 2 Isolated CAN Bus support CAN FD |
| DIO | 16 Isolated DIO (8 DI, 8 DO) |
| 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, SSD, 2 User Programmable |
| SIM | 2 SIM Card Socket |
| Antenna | 6 Antenna for WiFi/4G/5G/LTE/GPRS/UMTS |

Expansion

| | |
|------|---|
| PCIe | 1 PCIe x16 slot with PCIe 3.0 x8 signal |
| M.2 | - 1 M.2 Key B Socket (3042/3052, USB3) - 1 M.2 Key E Socket (2230, PCIe/USB) |

Graphics

| | |
|--------------|---|
| Interface | 1 Digital Display, up to 4K60 |
| Video Encode | R32 : 1x 4K @60, 3x 4K @30, 6x 1080p @60 (HEVC) R64 : 2x 4K @60, 4x 4K @30, 8x 1080p @60 (HEVC) |
| Video Decode | R32 : 1x 8K @30, 4x 4K @30, 9x 1080p @60 (HEVC) R64 : 1x 8K @30, 7x 4K @30, 11x 1080p @60 (HEVC) |

Camera (EAC-5000)

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

Storage

| | |
|------|---|
| M.2 | 2 M.2 Key M Socket (2280, PCIe Gen3 x4) |
| eMMC | 1 eMMC 5.1, 64GB |
| 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-5100)

| | |
|----------------|---|
| 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 60W 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 (non-OOB SKU only) |
| Remote Switch | 3-pin Remote Switch Terminal Block |

Out-of-Band Management (EAC-5000-OOB)

| | |
|-------------------|--|
| MCU | Nuvoton NUC980 |
| Interface | OOB LAN, 10/100Mb Ethernet LAN, RJ45 Connector |
| Remote Management | Support Remote Power ON/OFF, Reset and Power Cycling |

Optional

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

Mechanical

| | |
|------------|---|
| Dimensions | 260 mm x 182 mm x 69 mm (10.24" x 7.17" x 2.72") |
| Weight | 3.8 kg (8.39 lb) |
| Mounting | - Wallmount - DIN Rail and VESA Mount (Optional) |

Environment

| | |
|-------------------|---|
| Operating Temp. | 30W TDP Mode : -25°C to 70°C (-13°F to 158°F), with 0.63 m/s air flow 40/50W 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-810G, Method 516.7, Procedure I |
| Vibration | Operating, MIL-STD-810G, Method 514.6, 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 | Iso. CAN | Iso. DIO | PCIe Slot | GMSL | PoE* | SIM | M.2 | OOB |
|------------------|-----------------|------|-----|---------|--------|----------|----------|-----------|------|------|-----|-----|-----|
| EAC-5000-R32 | Jetson AGX Orin | 32GB | 2 | 5 | 2 | 2 | 16 | 1 | 8 | - | 2 | 4 | N |
| EAC-5000-R64 | | 64GB | 2 | 5 | 2 | 2 | 16 | 1 | 8 | - | 2 | 4 | N |
| EAC-5000-OOB-R32 | | 32GB | 2 | 5 | 2 | 2 | 16 | 1 | 8 | - | 2 | 4 | Y |
| EAC-5000-OOB-R64 | | 64GB | 2 | 5 | 2 | 2 | 16 | 1 | 8 | - | 2 | 4 | Y |
| EAC-5100-R32 | | 32GB | 6 | 5 | 2 | 2 | 16 | 1 | - | 4 | 2 | 4 | N |
| EAC-5100-R64 | | 64GB | 6 | 5 | 2 | 2 | 16 | 1 | - | 4 | 2 | 4 | N |
| EAC-5100-OOB-R32 | 32GB | 6 | 5 | 2 | 2 | 16 | 1 | - | 4 | 2 | 4 | Y | |
| EAC-5100-OOB-R64 | 64GB | 6 | 5 | 2 | 2 | 16 | 1 | - | 4 | 2 | 4 | Y | |

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)

