• 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 Gen4 x8 expansion slot supports optional multiple 10GigE/PoE LAN/USB connections
• 6 GigE LAN with 4 PoE*, 1 Digital Display supports 8K60
• 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
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 55 Tensor Cores
R64 : 2048-core NVIDIA Ampere, architecture GPU with 64 Tensor Cores

DL Accelerator 2x NVIDIA NVLink

Memory R32 : 1 32GB LPDDR5 DRAM
R64 : 1 64GB LPDDR5 DRAM

Software Support
- Linux
- NVIDIA JetPack SDK

I/O Interface
USB 1 USB 3.1 Gen 2, supports up to 10Gbps
- 4 USB 3.1, supports 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 Gen4 x8 Slot
M.2 2 M.2 Key M Socket (2280, PCIe x4)
eMMC 1 eMMC 5.1, 64GB
SD 1 Micro SD (External)

Graphics
Interface 1 Digital Display, up to 8K60
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 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
(Additional 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)

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

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

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 : -20°C to 70°C (-4°F to 158°F)
40/50W TDP Mode : -20°C to 55°C (-4°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

Order Information

Model Name Platform RAM LAN USB 3.1 Serial ISO CAN DIO PCIe Slot GMSL PoE SIM M.2 OOB
EAC-5000-R32 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 Y
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, 90V 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)