• 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
Specifications

System
CPU R16 : 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU
R08 : 6-core Arm® Cortex®-A77AE v8.2 64-bit CPU
GPU 1024-core NVIDIA Ampere™ architecture GPU with 32 Tensor cores
DLC Accelerator R16 : 2x NVDLA Engine
R08 : 1x NVDLA Engine
Memory R16 : 16GB LPDDR5 DRAM
R08 : 1GB 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 Slot
Antenna EAC-6000 : 6 Antenna for WiFi/G/5G/6/LTE/GPRS/UMTS
EAC-6100/6200 : 10 Antenna for WiFi/G/5G/6/LTE/GPRS/UMTS

Expansion
M.2 - 2 M.2 Key B Socket (3042/3052, 2280)
- 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 10G/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°C 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 GPIO CAN PoE™ GMSL SIM M.2
EAC-6000-R16 16GB 2 3 2 7 - - - 2 4
EAC-6000-R08 8GB
EAC-6100-R16 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
GM5L Camera Kit GM5L 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 193.00 (7.60) 134.0 (5.28)
EAC-6100 193.00 (7.60) 134.0 (5.28)
EAC-6200 193.00 (7.60) 134.0 (5.28)

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