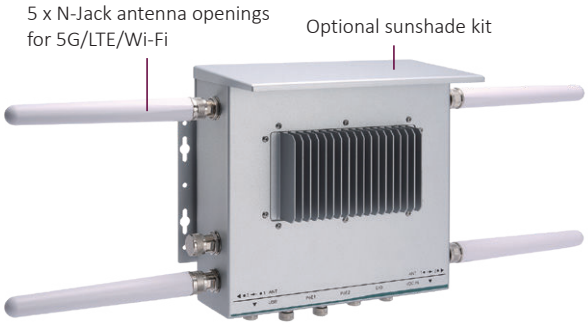
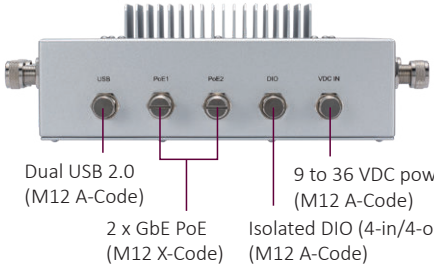
AIE810-ONX NEW

Rugged IP67-rated Fanless Edge AI System with NVIDIA® Jetson Orin™ NX, 2 PoE, 1 USB, 8-CH DIO and 9 to 36 VDC for Outdoor Edge AI Application

NVIDIA Preferred Partner





IP67 | Fanless | LPDDR5 | 9 to 36 VDC | Jetson Orin NX | Allxon DMS

Features

- IP67-rated design, specifically for outdoor environments
- NVIDIA® Jetson Orin™ NX 16GB (100 TOPS)
- Seamless speed: 5G, Wi-Fi 6E, and 2.5GbE combined
- 9 to 36 VDC wide range power input
- -25°C to +60°C operating temperature range

NVIDIA® Jetson Orin™ NX available through to 2032*
The official end of life notice will be sent for at least 8 months before the last shipment.

Specifications

Standard Color	Silver
Construction	Aluminum die-casting and heavy-duty steel, IP67
AI Accelerator	NVIDIA® Jetson Orin™ NX 16GB (100 TOPS) *Under planning: NVIDIA® Jetson Orin™ NX 8GB (70 TOPS), Orin™ Nano 8GB (40 TOPS) or Orin™ Nano 4GB (20 TOPS)
CPU	NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores

Specifications

System Memory	16GB 128-bit LPDDR5 onboard
Carrier Board	PSB907
System I/O Outlet	2 x M12 X-Code 8-pos GbE PoE *PSE, IEEE 802.3at, up to 30 watts of power 1 x M12 A-Code 8-pos dual USB 2.0 1 x M12 A-Code 12-pos isolated 4-in/4-out DIO 1 x M12 A-Code 5-pos power input 5 x N-Jack antenna opening with a waterproof design
Watchdog Timer	Built-in Orin NX
Storage	1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot *The Orin NX no longer includes built-in eMMC and now exclusively supports an SSD as the bootable device. *The AIE810-ONX requires an SSD for image installation. Please order an SSD if you need image installation service.
Expansion Interface	1 x M.2 Key E 2230 slot for Wi-Fi 6E 1 x full-size PCI Express Mini Card slot (USB + PCI Express signal) for Wi-Fi/LTE *Please avoid using the PCI Express Mini Card slot and the M.2 E-Key slot simultaneously. 1 x M.2 Key B 3042/3052 slot for 5G/LTE 1 x Nano SIM slot
Power Input	Input: 9 to 36 VDC (typical 12/24 VDC) Inrush current: 0.69A/3.08A
Operating Temperature	25W power mode:-25°C to +60°C (-13°F to +140°F)
Relative Humidity	10% to 95% relative humidity, non-condensing
Vibration	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, 1 hr/axis)
Shock	IEC 60068-2-27 (with SSD: 50G, half-sine, 11 ms duration)
Dimensions (W x D x H)	240 x 220 x 93.4 mm (9.44" x 8.66" x 3.67")
Weight (net/gross)	4 kg (8.81 lb)/7.2 kg (15.87 lb)
Certifications	CE
OS Support	Linux Ubuntu 22.04 or later

Ordering Information

Standard	
AIE810-ONX-16GB	Rugged IP67-rated fanless Edge AI system with NVIDIA® Jetson Orin™ NX, 2 PoE, 1 USB, 8CH DIO, and 9 to 36 VDC
Optional	
E29R150104	Wall mount kit
E29R150105	Sunshade kit
594B8152710E	LAN/PoE cable, 180 cm
594B8122820E	Dual USB cable, 180 cm
590000064600	DIO cable, 200 cm
M.2 NVMe SSD 128GB or above *The AIE810-ONX requires an SSD for image installation. Please order an SSD if you need image installation service.	
LTE module kit *Please avoid using the PCI Express Mini Card slot and the M.2 Key E slot simultaneously.	
Wi-Fi module kit *Please avoid using the PCI Express Mini Card slot and the M.2 Key E slot simultaneously.	
5G module kit	
Power cord	
509000002200	24V/90W adapter

* Specifications and certifications may vary based on different requirements.

Remote Management Enrollment

Allxon Portal- Sign up for 24/7 secure service to access comprehensive remote device management features through a centralized cloud platform
*Enrollment Page: https://allxon.com/jetson/device_enroll/

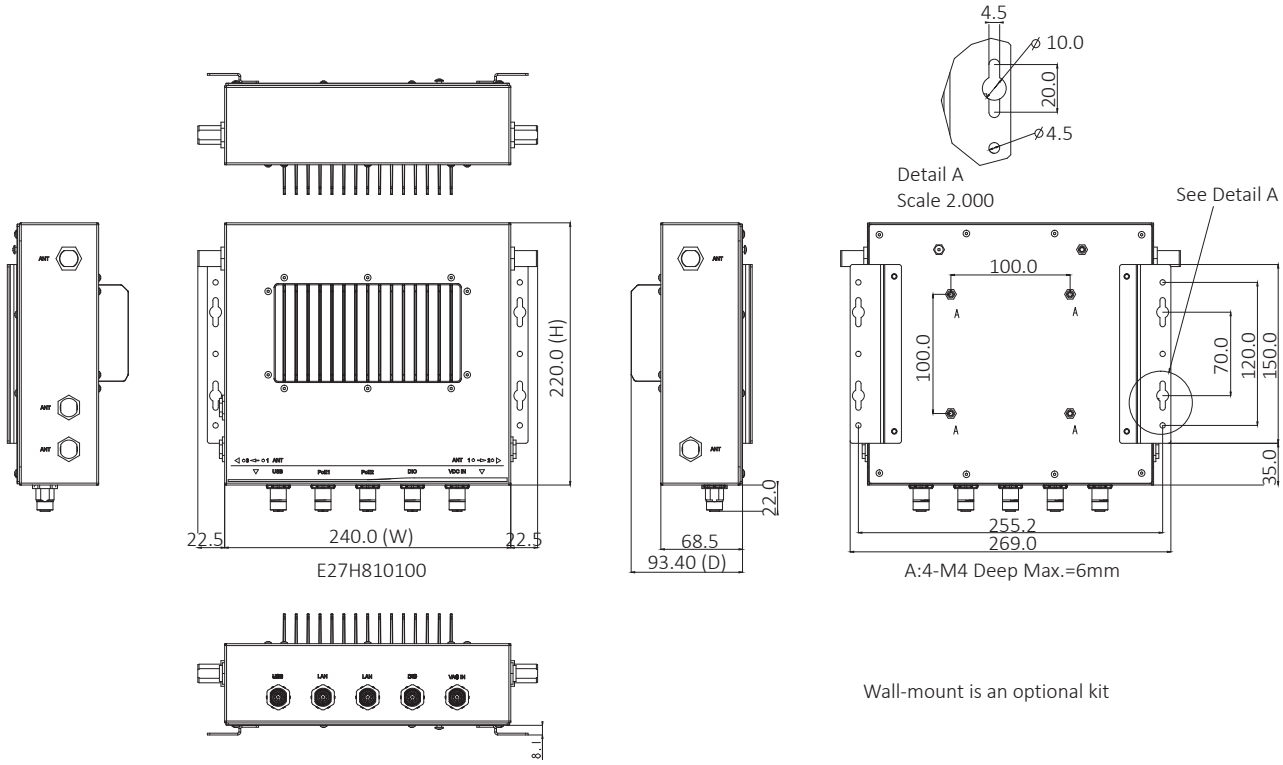
Packing List

1 x screw pack
1 x M.2 SSD thermal kit

Power Protection

DC Adapter
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)

Dimensions



Wall-mount is an optional kit

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