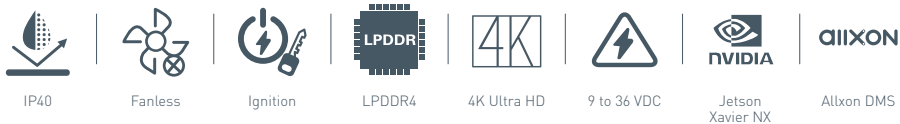


AIE900-XNX

Fanless Edge AI System with NVIDIA® Jetson Xavier™ NX, 1 HDMI, 1 GbE LAN, 4 GbE PoE, 8-CH DI/DO, and 2 COM/CAN for 5G and AMR Applications



Features

- NVIDIA® Jetson Xavier™ NX (21 TOPS)
- 1 M.2 Key B slot for 5G
- Wide power input range of 9 to 36 VDC (with ignition)
- Supports four PoE for GigE cameras and LiDAR connectivity
- Wide operating temperature from -30°C to +50°C
- Supports device management and optional out-of-band service, powered by Allxon
- Optional SerDes FPD-LINK III

NVIDIA® Jetson Xavier™ NX available through to 2028*
The official end of life notice will be sent for at least 8 months before the last shipment.

Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
AI Accelerator	NVIDIA® Jetson Xavier™ NX (21 TOPS)
CPU	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU 6 MB L2 + 4 MB L3
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
System Memory	8 or 16GB 128-bit LPDDR4x onboard
Carrier Board	PSB905
System I/O Outlet	<ul style="list-style-type: none"> 1 x Lockable HDMI 2.0 with 4K2K supported 1 x 10/100/1000 Mbps Ethernet (via Jetson Xavier™ NX) 4 x 10/100/1000 Mbps PoE (Intel® I210-IT, up to 30W) 2 x DB9 for RS-232/422/485/CAN, selectable via jumper setting 2 x USB 3.2 Gen2 1 x 8-CH DI/DO 1 x Remote switch and reset button 1 x Power button 1 x Micro USB for image flash 1 x Recovery switch 1 x 9 to 36 VDC power input connector 5 x SMA-type antenna opening

Specifications

Watchdog Timer	Dual watchdog timer
Storage	16GB eMMC onboard (via Jetson Xavier™ NX) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot *The bootable device is supported by eMMC only
Expansion Interface	1 x MIPI CSI-2 connector (optional 4 x FPD-Link III connectors available) 1 x full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x M.2 Key B 3050/3042 slot 1 x SIM slot
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for M.2 storage 1 x Green LED for LAN status 4 x Green LED for GbE PoE status
Power Supply	9 to 36 VDC (with ignition power control)
Operating Temperature	-30°C to +60°C (-22°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)	239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")
Weight (net/gross)	2.5 kg (5.51 lb)/4 kg (8.82 lb)
Certifications	CE, FCC Class A, and UKCA
OS Support	Linux Ubuntu 18.04 or later

Ordering Information

Standard

AIE900-XXN-1L4P (P/N: E27H900102)	Fanless edge AI system with NVIDIA® Jetson Xavier™ NX 8GB, 1 HDMI, 1 GbE LAN, 4 GbE PoE, 8-CH DI/DO, and 2 COM/CAN
AIE900-XXN-16GB (P/N: E27H900103)	Fanless edge AI system with NVIDIA® Jetson Xavier™ NX 16GB, 1 HDMI, 1 GbE LAN, 4 GbE PoE, 8-CH DI/DO, and 2 COM/CAN

Optional

E29R150110	Wall mount kit
E29R150112	DIN-rail kit
E29R150111	VESA mount kit
M.2 NVMe SSD 128GB or above	
LTE module	
Wi-Fi module	
5G module	
Power cord	
509000001500	Adaptor 24V/120W, wire only, FSP120-AAAN3

* Specifications and certifications may vary based on different requirements.

Packing List

- 1 x Terminal block connector
- 1 x Screw pack
- 4 x Foot pad
- 1 x M.2 SSD thermal kit
- 1 x 5G module thermal kit

Power Protection

DC Adapter

- OVP (over voltage protection)
- OCP (over current protection)
- UVP (under voltage protection)
- Reserve protection

Dimensions

