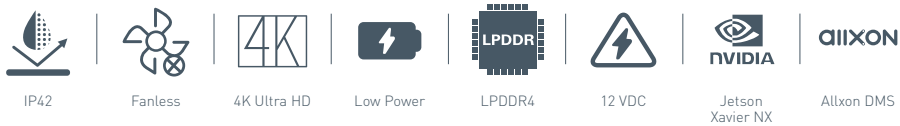
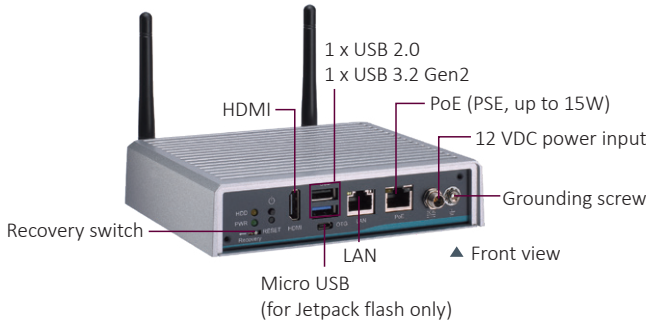


AIE100-903-FL-NX

Fanless Edge AI System with NVIDIA® Jetson Xavier™ NX, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB, featuring Remote Management Service Powered by Allxon



Features

- NVIDIA® Jetson Xavier™ NX (21 TOPS)
- Ideal for edge AI smart city applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -30°C to +50°C
- Optional IP42 cover kit for semi-outdoor applications
- Enables 24/7 secure remote monitoring, control, and OTA deployment, powered by Allxon

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 (IP42 by optional cover kit) |
| AI Accelerator | NVIDIA® Jetson Xavier™ NX (21 TOPS) |
| CPU | 6-core NVIDIA Carmel Arm®v8.2 64-bit CPU 6MB L2 + 4MB L3 |
| GPU | 384-core NVIDIA Volta™ GPU with 48 Tensor Cores |
| System Memory | 16GB or 8GB 128-bit LPDDR4x onboard |
| Carrier Board | SBC87903 |
| System I/O Outlet | <ul style="list-style-type: none"> 1 x HDMI 2.0 with 4K2K supported 1 x 10/100/1000 Mbps Ethernet (via Jetson Xavier™ NX) 1 x 10/100/1000 Mbps PoE (Intel® I210-IT, up to 15W) 1 x USB 3.2 Gen2 1 x USB 2.0 1 x Micro USB for image flash 1 x Recovery switch 1 x Reset button 1 x Power button 1 x 12 VDC power input connector 2 x SMA-type antenna connector |

Specifications

| | |
|------------------------|--|
| Watchdog Timer | Built-in Xavier NX |
| Storage | Onboard 16GB eMMC (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 exclusively by eMMC |
| Expansion Interface | 1 x full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x SIM slot |
| System Indicator | 1 x Green LED for system power-on 1 x Yellow LED for M.2 storage |
| Power Supply | 12 VDC screw type |
| Operating Temperature | -30°C to +50°C (-22°F to +122°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) | 148.6 x 129.8 x 34.6 mm (5.85" x 5.11" x 1.36") |
| Weight (net/gross) | 0.9 kg (1.93 lb)/1.8 kg (3.97 lb) |
| Certifications | CE, FCC Class A, and UKCA |
| OS Support | Linux Ubuntu 18.04 or later |

Ordering Information

Standard

| | |
|--|---|
| AIE100-903-FL-NX (P/N: E27H100101) | Fanless edge AI system with NVIDIA® Jetson Xavier™ NX 8GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB |
| AIE100-903-FL-NX-16GB (P/N: E27H100103) | Fanless edge AI system with NVIDIA® Jetson Xavier™ NX 16GB, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB |

Optional

| | |
|------------|--|
| E29R150100 | Wall mount kit |
| E29R150102 | DIN-rail kit |
| E29R150101 | VESA mount kit |
| E29R150103 | IP42 waterproof cover kit *Please order the wireless module kit, which includes waterproof antennas |

M.2 NVMe SSD 128GB or above

LTE module

Wi-Fi module

Power cord

50966124050E 12V/60W 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
4 x Foot pad

Power Protection

DC Adapter

OVP (over voltage protection)
OCP (over current protection)
UVP (under voltage protection)
SCP (short circuit protection)

Dimensions

