

AIE100-903-FL-NX

Fanless Edge AI System with NVIDIA® Jetson Xavier™ NX, HDMI, GbE LAN, GbE PoE, 2 USB, and Allxon Device Management Solutions

Features

- NVIDIA® Jetson Xavier™ NX with Volta™ GPU architecture with 384 NVIDIA CUDA® cores
- High AI computing performance for GPU-accelerated processing
- Ideal for edge AI smart city applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -30°C to +50°C
- Supports JetPack
- Supports Allxon Device Management Solutions (Allxon DMS)

NVIDIA® Jetson Xavier™ NX will be available until 2026*
The official end of life notice will be sent at least 8 months before the last shipment.



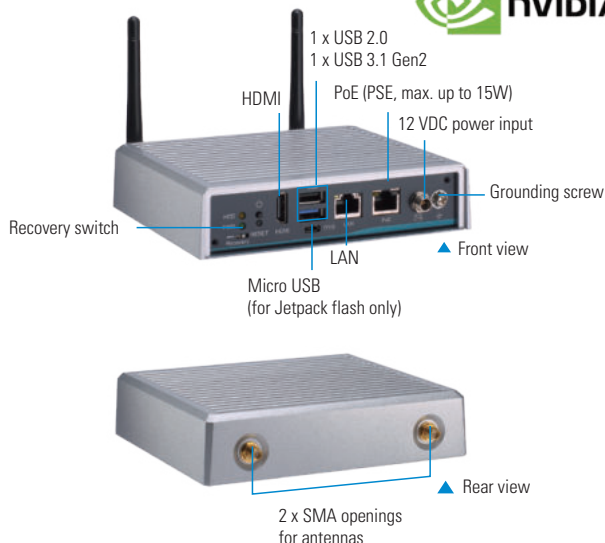
Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40 (without IP42 cover kit)
AI Accelerator	NVIDIA® Jetson Xavier™ NX
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	8GB 128-bit LPDDR4x onboard
Carried Board	SBC87903
System I/O Outlet	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; max. up to 15W) 1 x USB 3.1 Gen2, 1 x USB 2.0 1 x Micro USB 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
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 by eMMC only
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)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)
Dimensions	148.6 mm (5.85") (W) x 129.8 mm (5.11") (D) x 34.6 mm (1.36") (H)
Weight (net/gross)	1 kg (2.20lb)/1.6 kg (3.52lb)
Certifications	CE, FCC Class A
OS Support	Linux Ubuntu 18.04

Remote Management Enrollment

Enroll in 24/7 secure service to get full feature of remote device management on one centralized cloud portal – Allxon Portal

*Enrollment Page: https://allxon.com/jetson/device_enroll/



Packing List

- 1 x Screw pack
- 4 x Foot pad

Power Protection

DC Version

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

Ordering Information

Standard

AIE100-903-FL-NX	Fanless edge AI system with NVIDIA® Jetson Xavier™ NX SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB
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Optional

Wall mount kit	
DIN-rail kit	
VESA mount kit	
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.

Dimensions

