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)

Specifications

- Standard Color: Silver
- Construction: Aluminum extrusion and heavy-duty steel, IP40 (without IP42 cover kit)
- AI Accelerator: NVIDIA® Jetson Xavier™ NX
- GPU: 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 PC 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 Gs rms 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)
- OCP (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

Optional
- Wall mount kit
- DIN-rail kit
- VESA mount kit
- M.2 NVMe SSD 128GB or above
- LTE module
- Wi-Fi module
- Power cord

50986124050E 12V/60W adapter

* Specifications and certifications may vary based on different requirements.

Dimensions