AIE100-903-FL

Fanless Edge AI System with NVIDIA® Jetson Nano™ SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE and 2 USB

Features

- NVIDIA® Jetson Nano™ with Maxwell™ GPU architecture with 128 NVIDIA CUDA® cores
- High AI computing performance for GPU-accelerated processing
- Ideal for edge AI smart city applications
- Optional IP42 cover kit for semi-outdoor applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -30°C to +60°C
- JetPack supported

Specifications

- Standard Color: Silver
- Construction: Aluminum extrusion and heavy-duty steel, IP40 (without IP42 cover kit)
- CPU Board: NVIDIA® Jetson Nano™
- GPU: Quad-core ARM® Cortex®-A57 MPCore processor
- NVIDIA Maxwell™ GPU architecture with 128 NVIDIA CUDA® cores
- System Memory: 1 x 4GB 64-bit LPDDR4 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™ Nano)
  - 1 x 10/100/1000 Mbps PoE (Intel® i210-IT, max. up to 15W)
  - 1 x USB 3.0, 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
- Watchdog Timer: Built-in Nano
- Storage:
  - Onboard 16GB eMMC (via Jetson™ Nano)
  - 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot
  - 1 x Micro SD slot
- 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 +60°C (-22°F to +140°F)
- Humidity: 10% - 95%, non-condensing
- Vibration Endurance: 3Gms with M.2 (5 to 500Hz, X, Y, Z directions)
- Dimensions:
  - 147.4 mm (5.8") (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

Packing List

- 1 x Screw pack
- 4 x Foot pad

Power Protection

- AC to DC Adapter:
  - OVP (over voltage protection)
  - OCP (over current protection)
  - UVP (under voltage protection)
  - SCP (short circuit protection)

Ordering Information

- Standard:
  - AIE100-903-FL: Fanless edge AI system with NVIDIA® Jetson Nano™ SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE and 2 USB

- Optional:
  - Wall mount kit
  - DIN-rail kit
  - VESA mount kit
  - LTE module
  - Wi-Fi module
  - 12V/60W adapter
  - Power cord
  - IP42 cover kit

* Specifications and certifications may vary based on different requirements.

Dimensions

NEW Fanless LowPower DDR4 4K UltraHD 12VDC Specifications Power Protection Ordering Information Dimensions

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