

AIE100-903-FL NEW

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

NVIDIA® Jetson Nano™ available through to 2025*
The official end of life notice will be sent for at least 8 months before the last shipment.

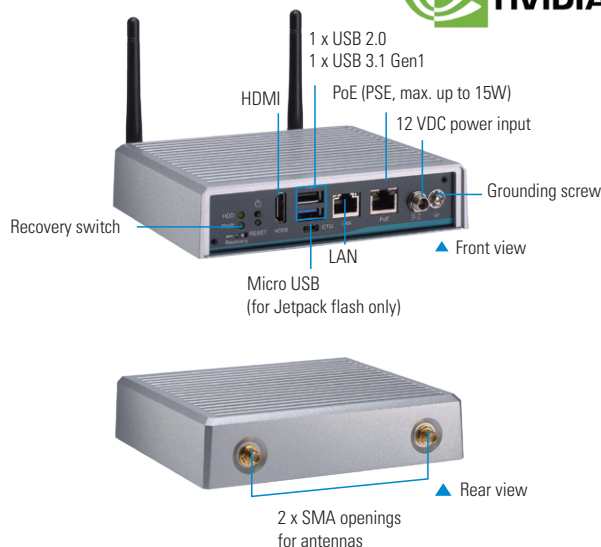


Specifications

| | |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Color | Silver |
| Construction | Aluminum extrusion and heavy-duty steel, IP40 (without IP42 cover kit) |
| CPU Board | NVIDIA® Jetson Nano™ |
| CPU | Quad-core ARM® Cortex®-A57 MPCore processor |
| GPU | NVIDIA Maxwell™ 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 *The bootable device 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 +60°C (-22°F to +140°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 |

Packing List

- 1 x Screw pack
- 4 x Foot pad



Power Protection

AC to DC Adapter

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

Ordering Information

Standard

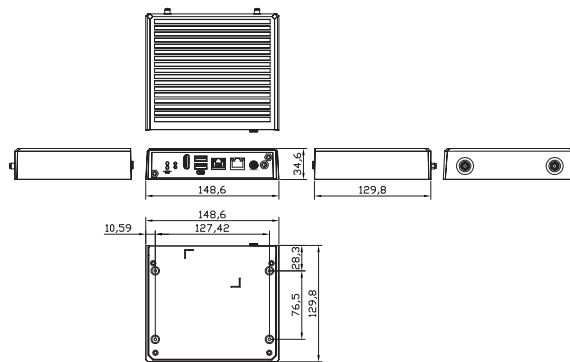
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|---------------|----------------------------------------------------------------------------------------------|
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|---------------|----------------------------------------------------------------------------------------------|

Optional

| | |
|-----------------------------|-----------------|
| Wall mount kit | |
| DIN-rail kit | |
| VESA mount kit | |
| M.2 NVMe SSD 128GB or above | |
| LTE module | |
| Wi-Fi module | |
| Power cord | |
| IP42 cover kit | |
| 50966124050E | 12V/60W adapter |

* Specifications and certifications may vary based on different requirements.

Dimensions



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