

MVi900A-NX

NEW

Fanless Edge AI System with NVIDIA® Jetson Xavier™ NX SoM, 1 HDMI, 1 GbE LAN, 4 GbE PoE, 8-CH DI/DO, and 2 COM/CAN for 5G and AMR Applications

Features

- NVIDIA® Jetson Xavier™ NX with Volta™ GPU architecture with 384 NVIDIA CUDA® cores
- Advanced edge AI platform for AMR, AGV and computer vision
- Wide power input range of 12V/24VDC with ignition power control
- Supports four GbE PoE for GigE camera and LiDAR connectivity
- Wide operating temperature from -30°C to +60°C
- One M.2 Key B slot for 5G/LTE
- One 8-CH DI/DO & Two DB9 for RS-232/422/485/CAN



▲ Front view



▲ Rear view

NVIDIA® Jetson Xavier™ NX available through to 2026*

The official end of life notice will be sent for at least 8 months before the last shipment.



Specifications

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|-----------------------|--|
| Standard Color | Silver |
| Construction | Aluminum extrusion and heavy-duty steel, IP40 |
| CPU Board | 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 | 1 x 8GB 128-bit LPDDR4x onboard |
| Carried Board | PSB905 |
| System I/O Outlet | 1 x Lockable HDMI 2.0 with 4K2K supported 1 x 10/100/1000 Mbps Ethernet (Via Jetson Xavier™ NX) 4 x 10/100/1000 Mbps PoE (Intel® i210-IT; max. up to 30W) 2 x DB9 for RS-232/422/485/CAN (selected by jumper setting) 2 x USB 3.1 Gen2 1 x Micro USB 1 x 8-CH DI/DO 1 x Recovery switch and 1 x remote switch 1 x Reset button and 1 x power button 1 x 12/24 VDC power input connector 5 x SMA-type antenna connector |
| Watchdog Timer | Dual watchdog timer |
| 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 supported by eMMC only |
| Expansion Interface | 1 x MIPi CSI-2 connector 1 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x M.2 Key B 3050/3042 slot 1 x SIM slot |
| System Indicator | 1 x Green LED for system power-on 1 x Yellow LED for M.2 storage 1 x Green LED for LAN status 4 x Green LED for PoE status |
| Power Supply | 12/24 VDC with ignition power control |
| 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 | 239 mm (9.41") (W) x 185.3 mm (7.3") (D) x 79.4 mm (3.13") (H) |
| Weight (net/gross) | 2.8kg (6.17lb)/3.45kg (7.61lb) |
| Certifications | CE, FCC Class A |
| OS Support | Linux Ubuntu 18.04 |

Packing List

- 1 x Screw pack
- 4 x Foot pad
- 1 x Thermal kit

Power Protection

DC Version

- OVP (over voltage protection)
- OCV (over current protection)
- UVP (under voltage protection)
- Reserve protection

Ordering Information

Standard

| | |
|------------|--|
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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 | |
| 5G module | |
| Power cord | |
| 50906D24000E | Adaptor 24V/120W, wire only, FSP120-AAAN3 |

* Specifications and certifications may vary based on different requirements.

AI Edge Systems

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