

MINI PC Series

Fanless Industrial PCs

Industrial Components



Elevation

Industrial fanless **Edge AI PC** equipped with the NVIDIA **Jetson Orin Nano** module, featuring a 6-core ARM CPU and a GPU delivering AI performance of up to **40–67 TOPS**, 8 GB integrated memory, multi-channel I/O, and a **9–36 V DC** wide-range power input.

Suitable for use as a Multi-access Edge Computing (MEC) platform in intelligent transport, machine vision, smart logistics, and other industrial sectors.



Indoor

TECHNICAL SPECIFICATIONS

Direct Importer: Grupo EOS Ibérica SA
AI Performance: 40~67 TOPS (Config. S002).
Processor (CPU): 6-core 64-bit ARM® Cortex-A78AE v8.2 (1.5MB L2 + 4MB L3).
Graphics (GPU): 1024-core NVIDIA Ampere Architecture with 32 Tensor Cores (S002).
DL / VS Accelerator: 2NVDLA v2 (S002), PVA v2.0.
RAM: 8GB LPDDR5 on-board memory, 128-bit at 68GB/s (S002).
Storage: 1x M.2 2280 M-Key (compatible with high-speed NVMe memory card); 1x Micro SD card slot.
Expansion Sockets: 1x M.2 3052 B-Key with SIM card slot (supports 4G LTE or 5G NR), 1x M.2 2280 M-Key (for NVMe SSD).
Operating Temperature: -20~60° and **Store Temperature:** -40~85°.
Humidity: 10~90@40°, non-condensing.
Vibration Resistance: 5grms / 5~500Hz / aleatorio / en funcionamiento (con SSD).
Shock Resistance: 50g peak acceleration (11ms duration) (with SSD).
Certifications / EMC: CE / FCC Class A.

OTHER TECHNICAL SPECIFICATIONS

Video Encoding / Decoding: 1080p30 supported by 1-2 CPU cores. Video Decoding (H.265): 1x 4K60 | 2x 4K30 | 5x 1080p60 | 11x 1080p30.
Audio: Realtek ALC5640, supports stereo channel output (1x Line-out).
Network (LAN): 2x 10/100/1000Mbps LAN ports.
Camera: Default support for 2x 4-lane MIPI (22 pin); 4x GMSL available as an option.
Serial Ports and DIO: 4-bit Digital Input (DI) isolated at 2.5KV (TTL signal). 4-bit Digital Output (DO) isolated at 2.5KV (TTL signal). 2x COM ports isolated at 2.5KV configurable as RS232 / RS485 / RS422.
I/O Interfaces (Ports): 2x LAN. 1x HDMI. 2x USB 3.2 (Gen2 10Gbps, Type A). 2x USB 2.0 (Type A). 1x Line-out. 1x isolated RS232 + 1x isolated RS485/422 (2x5 pin Phoenix terminal). 2x isolated CAN (1x DB9; one of the isolated CAN channels is optional). 1x isolated 8-bit DIO (2x6 pin Phoenix terminal). 1x SIM card slot. 1x Micro SD card slot. 4x Antenna Connectors (ANT).
LED Indicators: 1x Power LED (on the power button), 1x Status/Running lights.
Control Buttons: 1x Power Button with LED, 1x Reset (RST), 1x Recovery (REV).
Power Supply: Wide voltage DC 9~36V power input (3-pin 3.81 mm terminal block), with short-circuit, over-voltage, and over-current protection.
Estimated Power Consumption (TDP): 10-25W. DC 12V output up to 3A (4-pin 3.5 mm terminal block).
Supported Operating Systems: Linux Ubuntu 20.04 and 22.04 with NVIDIA JetPack.

I/O PORTS



Front



Back

CERTIFICATIONS



CONNECTIVITY OPTIONS



WiFi Module: Intel AC 9560
WiFi Antenna: Yes
Connection Cable: Yes
SMA Extension: Optional



4G LTE / 5G NR Module: M.2 3052 B-Key slot + integrated front SIM card slot



PRODUCT VALUES

- > High AI processing capacity
- > Ultra-rugged and Fanless
- > Integrated Industrial Isolation
- > Wide Power Range: Supports 9 to 36V DC voltage inputs
- > Simultaneous Edge Connectivity: 5G/4G communications and multiple cameras (GMSL)
- > Advanced Energy Efficiency
- > Significant number of USB / COM connections

MOST COMMON APPLICATIONS

- > Artificial Vision Systems and real-time quality inspection.
- > Multi-access Edge Computing (MEC) nodes
- > Intelligent video processing and analytics (local camera analytics)
- > Autonomous guidance and control systems for Robotics / AGVs.
- > Communication gateways with isolation for heavy machinery.
- > Systems for massive data acquisition and processing in-plant (DAQs).

APPLICATION SECTORS

- > Intelligent Transport and Traffic Control.
- > Smart Logistics and Automated Warehouses.
- > Industrial Automation and Smart Factories.
- > Security, Advanced Surveillance and Access Control.
- > Automotive and Autonomous Vehicles/Embedded Systems

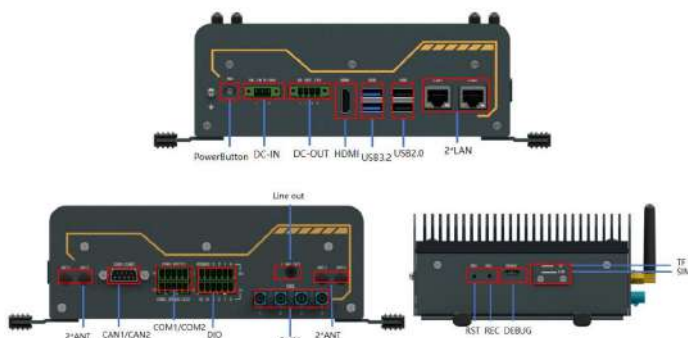
SOME SUCCESS STORIES

- > Traffic and infringement control
- > Guidance in logistics vehicles
- > Automated Optical Inspection (AOI)

ALTERNATIVE REFERENCES

- > Industrial PC eRX TH Modular
- > Industrial PC eRX Nvidia OR.NX 6CX4

CONNECTIONS



DIMENSIONS

