

MINI PC Series

Fanless Industrial PCs

Industrial Components



Elevation

Edge AI industrial PC equipped with the **NVIDIA Jetson Orin NX** module, a **6-core ARM CPU**, and a GPU with good AI performance of up to 70 TOPS. **Fan** cooling. 8GB integrated memory, multi-channel I/O, and a wide-range **9-36 VDC** power supply.

PCIe X4 expansion socket. It can be used as MEC (Multi-Access Edge Computing) for intelligent transport, machine vision, smart logistics, and other sectors.



Indoor

TECHNICAL SPECIFICATIONS

Direct Importer: Grupo EOS Ibérica SA
AI Performance: 70TOPS (S001)
Processor (CPU): 6 Cores Arm® Cortex-A78AE v8.2 64 CPU 1.5MB/ L2 + 4MB L3 (S001)
Graphics (GPU): 1024* Cores NVIDIA Ampere Architecture GPU 765MHz, with 32* Tensor Cores (S001).
DL / VS Accelerator: 1NVDLA v2 (S001).
RAM: 8GB 128-bit on-board LPDDR5 memory at 102.4 GB/S (S001).
Storage: 1x M.2 2280 M-Key, PCIe X4 signal, supporting NVMe high-speed memory card or edge AI computing module.
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°C and **Storage Temperature:** -40°~85°C.
Humidity: 10°~90% @ 40°C, non-condensing.
Vibration Resistance: 5grms / 5°~500Hz / random / operating (with SSD).
Shock Resistance: 50g peak acceleration (11ms duration) (with SSD).
Certifications / EMC: CE / FCC Class A.

OTHER TECHNICAL SPECIFICATIONS

Video Encoding/Decoding: **Video encoding:** 1080p30 supported by 1-2 CPU cores. **Video decoding (H.265):** 1x 4K60 | 2x 4K30 | 5x 1080p60 | 1x 1080p30.
Audio: Realtek ALC5640, supports stereo channel output (1x Line-out).
Network (LAN): 2x Intel I210AT PCIe Gig. Ethernet, 10/100/1000Mbps.
Serial and DIO Ports: 4 bits of 2.5KV isolated Digital Input (DI) (TTL signal), 4 bits of 2.5KV isolated Digital Output (DO) (TTL signal), 2x 2.5KV isolated COM ports 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 SIM card slot, 2x isolated CAN FD (Phoenix terminal interface), 2x 2.5KV Iso. RS485, PCIe X4 to 4x USB 3.0 (Optional 4x GBE or other options).
Communication: -1x M.2 3052/304 B-key, with SIM card slot, USB3.0 signal, supports 4G LTE or 5G NR wireless function module, 4x ANT. -1x M.2 2230 E-Key, PCIe X1 + USB2.0 signal, supports gigabit bandwidth WIFI6/BT5.0, 2x 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): 30.12W. DC 12V output up to 5A (3-pin 3.81 mm terminal block).**
Supported Operating Systems: Linux Ubuntu 20.04 and 22.04 with NVIDIA JetPack.

I/O PORTS



Front



Back

CERTIFICATIONS



CONNECTIVITY OPTIONS



PRODUCT VALUES

- > High AI processing capacity
- > Advanced Combined Dissipation
- > Integrated Industrial Isolation
- > Wide Power Range: Supports 9 to 36V DC voltage input
- > Simultaneous Edge Connectivity: 5G/4G Communications
- > Advanced Energy Efficiency
- > Significant number of USB / COM connections

MOST COMMON APPLICATIONS

- > Real-time processing and control for Humanoid Robotics and Cobots.
- > High-speed Edge AI nodes and Multi-Access Edge Computing (MEC).
- > Autonomous guidance and control systems for Robotics / AGVs.
- > Isolated communication gateways for heavy machinery.
- > In-plant massive data acquisition and processing systems (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.

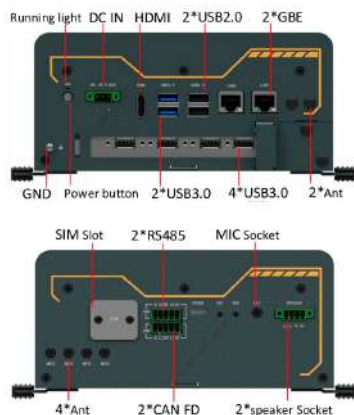
SOME SUCCESS STORIES

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

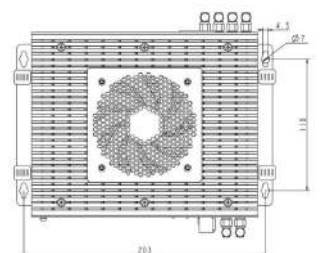
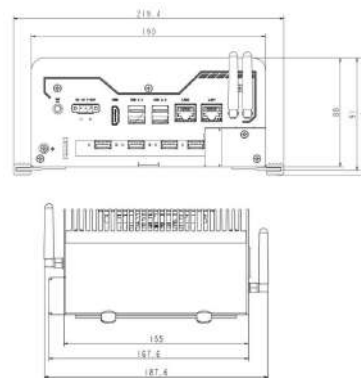
ALTERNATIVE REFERENCES

- > Industrial PC eRX TH Modular
- > Industrial PC eRX Nvidia OR.NANO 6C

CONNECTIONS



DIMENSIONS



Unit: mm