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INDUSTRIAL PRODUCT DATASHEET

reServer Industrial J3011 - Fanless AI enabled NVR Server with NVIDIA Jetson Orin™ Nano 8GB module

Fanless AI-enabled NVR server with NVIDIA Jetson Orin Nano 8GB, 40 TOPS performance, multi-stream processing, expandable storage, industrial interfaces, and optional hybrid connectivity for edge AI and computer vision applications.

SKU	UPDATED	PRICE
114110249	2026-10-27 04:18:58	$1199.00(Excl. VAT)



Overview



The reServer Industrial J3011 is a fanless compact edge AI server powered by the NVIDIA Jetson Orin Nano 8GB module with 40 TOPS AI performance and an operating temperature range of -20 ~ 60°C with 0.7m/s airflow. It supports multi-stream processing via 5x GbE RJ45 ports (4 for 802.3af PSE), expandable storage with two 2.5-inch SATA drive bays and an M.2 2280 NVMe socket, industrial interfaces (COM, DI/DO, CAN, USB 3.1, optional TPM2.0), hybrid 5G/4G/LTE/LoRaWAN connectivity, and enables AI capabilities for existing cameras/VMS, smart storage, custom analytics with CVEDIA-RT and Lumeo, and end-to-end computer vision development.

Key Features

01 **Fanless Compact Edge AI Server**

Powered by NVIDIA Jetson Orin Nano 8GB SoM with 40 TOPS AI performance, wider temperature range from -20 ~ 60°C with 0.7m/s airflow,

02 **Multi-Stream Processing**

5* GbE RJ45(4 for 802.3af PSE), handles multiple streams with real-time processing.

03 **Expandable Storage**

2 drive bays for 2.5" SATA HDD/SSD, plus an M.2 2280 socket for NVMe SSD.

04 **Industrial Interfaces**

Includes COM port, DI/DO ports, CAN port, USB 3.1, and optional TPM2.0 module.

05 **Hybrid Connectivity**

Supports 5G/4G/LTE/LoRaWAN® (module optional) with Nano SIM card slot.

06 **Certifications**

FCC, CE, UKCA, ROHS, KC

Product Gallery





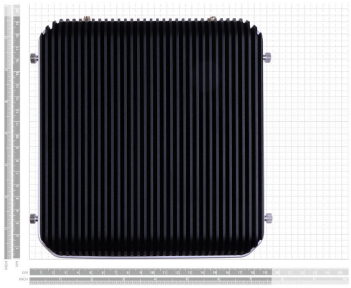




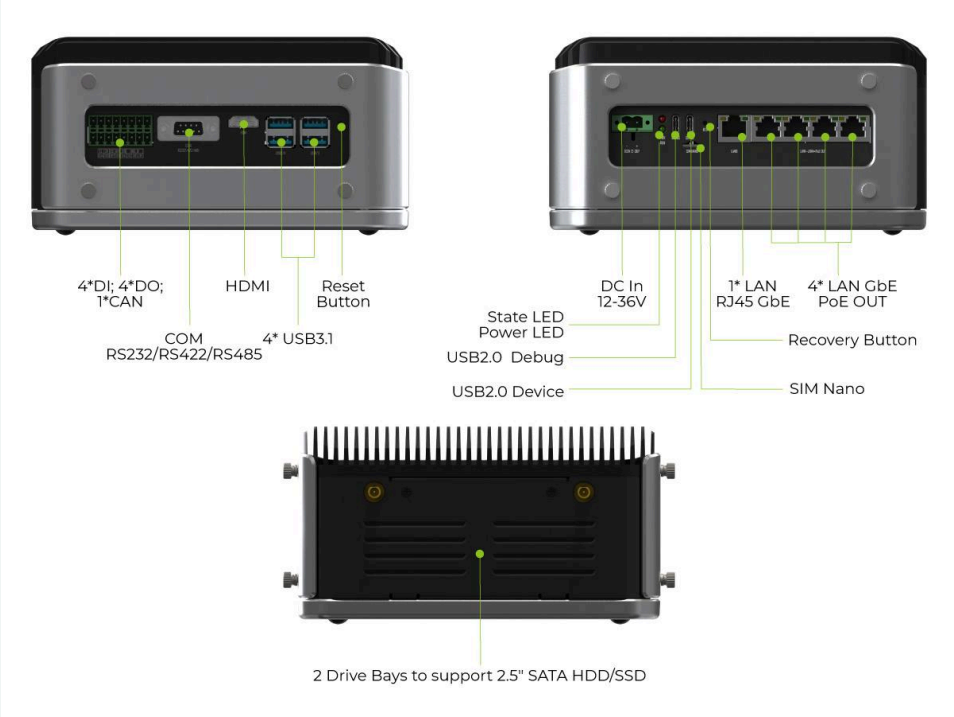


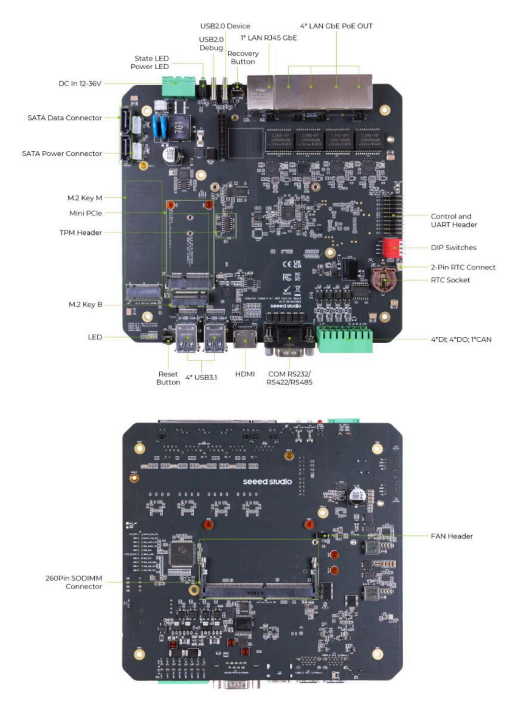





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Hardware Overview





Applications

- **Unlock AI capabilities for existing cameras and VMS:** Powered by the NVIDIA Jetson Orin NX 16GB processor, delivering up to 100 TOPS of AI performance, and capable of processing multiple video streams in real-time. The reServer empowers you to apply high-performance filters for critical insights across vast video footage.
- **Smart Storage Solutions:** Store and upload only noteworthy recordings for further processing. With two 2.5-inch hard drive bays, the reServer Industrial provides ample storage capacity, ensuring you have the space needed for expanding data requirements.
- **Create custom analytics made it easy**
- **Out-of-box tailor AI solution:** CVEDIA-RT comes with various AI models for face detection, vehicle and people detection, crowd estimation, and more.
- **Build video analytics workflow in a no-code way:** Effortlessly create custom video analytics solutions using Lumeo's innovative drag and drop tools.
- **End to end Computer Vision Development:** Our wiki help you start with the computer vision software and development tools during each step of your application.
- **obtain data for training**
- **label data for dataset preparation**
- **train AI models**
- **optimize models to run the best on the edge device**
- **deploy the model on the edge**
- **remote management**

Resource Links

- https://www.seeedstudio.com/reServer-industrial-J3011-p-5750.html
- Datasheet
- Schematic
- 3D File
- Assembly Guide
- Seeed Nvidia Jetson Product Catalog
- Nvidia Jetson Comparison
- Nvidia Jetson Product Comparison
- Seeed Nvidia Jetson Success Cases
- Seeed Jetson One Pager
- Flash BSP for Jetson

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