seeed studio

INDUSTRIAL PRODUCT DATASHEET

reServer Industrial & optional accessories，NVIDIA Jetson Powered AI NVR

reServer Industrial: AI NVR with up to 100 TOPS for real-time video analytics, smart storage, and end-to-end computer vision development.

SKU	UPDATED
E2025021102	2026-02-12 01:58:17



Overview



The reServer Industrial is a high-performance AI NVR powered by the NVIDIA Jetson Orin NX 16GB processor, delivering up to 100 TOPS for real-time multi-stream video analytics. It includes a 128GB SSD, two 2.5-inch drive bays for smart storage expansion, and supports out-of-the-box AI models and no-code video analytics workflow tools.

Key Features

Note:

- The wireless modules you choose like Wi-Fi and LTE modules will not be installed by Seeed. You will have to install the modules and antennas by yourselves. If you have batch orders which need the modules and antennas to be installed from factory, please contact odm@seeed.cc.
- 128GB SSD is included by default. For optimal performance with reComputer, we recommend using **256GB** / **512GB** / **1TB** / **2TB** NVMe SSDs from Seeed. Since some SSDs on the market may only be compatible with specific JetPack versions, which may cause the device to fail to function properly. And this issue is also present with official NVIDIA dev kits.
- reServer Industrial comes with a power adapter, but there's no power cord included by default. Please purchase the power cord according to your needs

Product Gallery









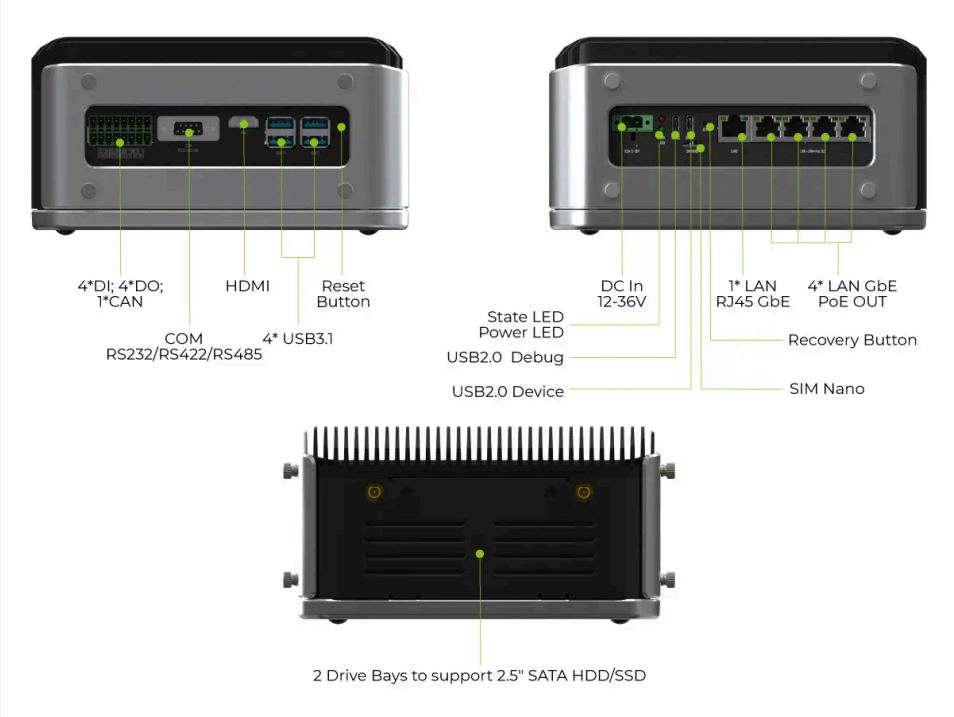


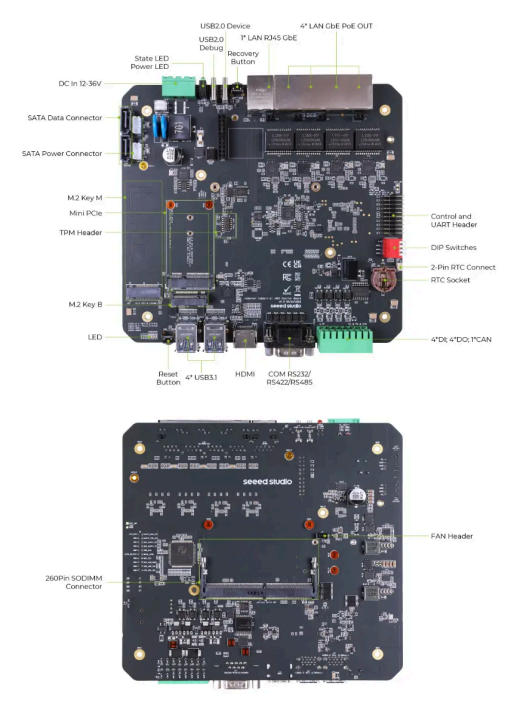



95.5mm
187mm
194.33mm



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.
- **Out-of-box tailor AI solution:** CVEDIA-RTcomes 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-J401-optional-accessories.html
- Datasheet
- Schematic
- 3D File
- Assembly Guide
- Seeed Nvidia Jetson Product Catalog
- NVIDIA® Jetson Product Comparison
- Seeed Nvidia Jetson Success Cases
- Seeed Jetson One Page
- Flash BSP for Jetson

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com