

SEED-110110190

NVIDIA® Jetson Orin™ NX 8GB



PRODUCT DETAILS

reComputer industrial series helps upgrading legacy machines with AI.

reComputer Industrial J4011 features NVIDIA Jetson Orin™ NX module for 70 TOPS AI performance, enabling multiple connectivity options including 2 RJ-45 Ethernet ports, 1 RS232/422/485 & CAN port, 4x Isolated DI/DO. Fanless design with versatile mounting options allows deployment from -20 to 60 °C, which is ideal for more harsh environments and heavier loads.

reComputer Industrial J4011 includes one Jetson Orin™ NX 8GB production module, a passive heatsink Aluminum case, mounting/ DIN rail brackets and a power adapter.

Features

Fanless compact PC: Thermal reference design, wider temperature support -20 ~ 60°C with 0.7m/s airflow

Designed for industrial interfaces: 2* RJ-45 GbE(1 for POE-PSE 802.3 af); 1* RS-232/RS-422/RS-485; 4* DI/DO; 1* CAN; 3* USB3.2; 1* TPM2.0 (Module optional)

Hybrid connectivity: Support 5G/4G/LTE/LoRaWAN® (Module optional) with 1* Nano SIM card slot

Flexible mounting: Desk, DIN rail, wall-mounting, VESA

Certifications: FCC, CE, RoHS, UKCA

Description

reComputer industrial series offers full systems including NVIDIA Jetson™ Xavier NX/ Orin Nano/Orin NX/ modules, ranging from 20 TOPS to 100 TOPS AI performance. Preinstalled

with Jetpack 5.1, reComputer industrial simplifies development, ideal for building applications of video analytics, object detection, natural language processing, medical imaging, and robots, which brings digital transformation across industries of smart cities, security, industrial automation, smart factories.

reComputer industrial comes with a passive heatsink and a fanless design, making it ideal for use in demanding environments. The passive heatsink allows for efficient cooling without the need for a fan, reducing the risk of component failure due to dust or other contaminants. The fanless design also reduces noise levels and power consumption, making it suitable for use in noise-sensitive environments and minimizing energy costs.

reComputer industrial has 2 RJ45 GbE ports, one of which is a PoE PSE port for providing power over Ethernet to devices like IP cameras. This eliminates the need for a separate power source and makes it easier to deploy network devices in areas without readily available power outlets. The other GbE port is used to connect to a network switch or router, enabling communication with other devices on the network and access to the Internet.

Applications

The reComputer industrial series is a versatile and powerful platform that can be used to develop a wide range of AI-powered applications, enabling digital transformation across industries. Below are some of the applications:

- **Video Analytics:** Object recognition, tracking, and classification. These capabilities can be used in security systems, traffic monitoring, and smart cities.
- **Natural Language Processing:** Speech recognition or language translation.
- **Medical Imaging:** Analyzing medical images to assist with diagnosis or treatment planning.



