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INDUSTRIAL PRODUCT DATASHEET

reComputer Super J4012 - Advanced Edge AI Computer with NVIDIA® Jetson™ Orin™ NX 16GB in Super Mode

The reComputer Super J4012 is an open-source, high-performance Edge AI computer powered by the Jetson™ Orin™ NX 16GB platform.

SKU	UPDATED	PRICE
114110314	2026-11-11 09:37:22	$1449.00(Excl. VAT)



Overview



The reComputer Super J4012 is an open-source, high-performance Edge AI computer powered by the Jetson™ Orin™ NX 16GB platform. Delivering up to 157 TOPS in Super MAXN mode (supporting JP7.2), it is engineered to drive advanced AI models and frameworks. Built for rapid development and production, the system features a wide operating temperature range (-20°C to 65°C), robust wireless connectivity (Wi-Fi, Bluetooth, LTE), and dual Gigabit Ethernet ports.

Key Features

01 **Super Boost AI Performance**

Delivers up to 157 TOPS in MAXN Super Mode, ideal for demanding applications like vision AI, robotics, and generative AI.

02 **Energy-Efficient Operation**

Configurable power modes from 10W to 40W allow for optimized performance and energy consumption.

03 **Robust Thermal Design**

Operates reliably in temperatures from -20°C to 60°C at 40W, and up to 65°C at 25W.

04 **Rich interfaces**

Features 2x RJ45, SIM card, 4x USB 3.2, HDMI 2.1, and CAN. Also including M.2 Key E/M, Mini-PCIe, 4x Mipi-CSI for connectivity and cameras.

05 **Ready for Deployment**

Pre-installed with JetPack 6.2 (Supports JP7.2) and a 128GB NVMe SSD, supporting AI frameworks like NVIDIA Isaac, Hugging Face, and ROS2/1, enabling rapid development of various AI applications.

06 **Jetson Orin Nano / Orin NX Modules Performance with Super Mode**

07 **Memory Bandwidth Upgrade**

08 **Higher Throughput**

09 **Improved higher frame rate processing**

10 **Enhanced Power Management**

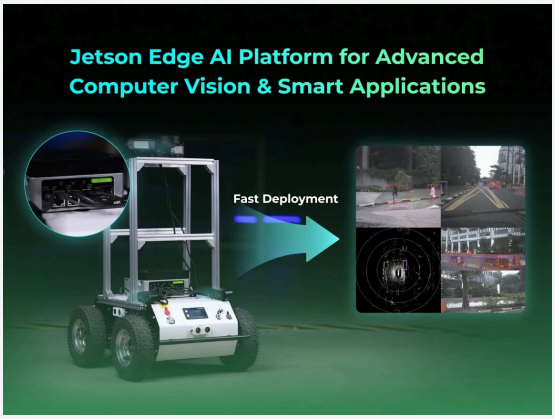
11 **Reduced Inference Latency**

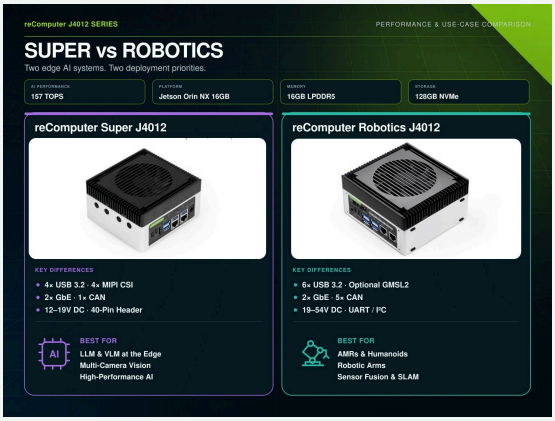
Product Gallery














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MADE IN CHINA
EU REP







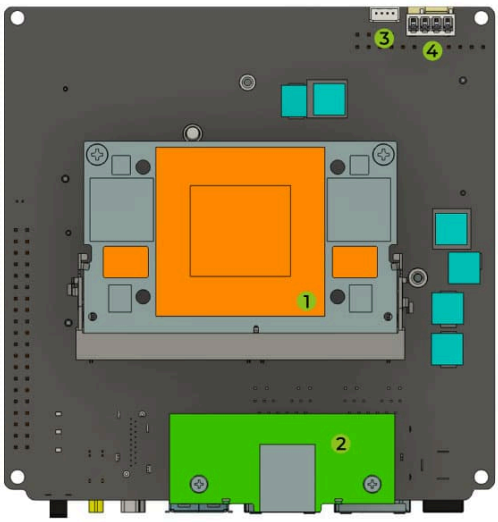

reComputer Super

Hardware Overview



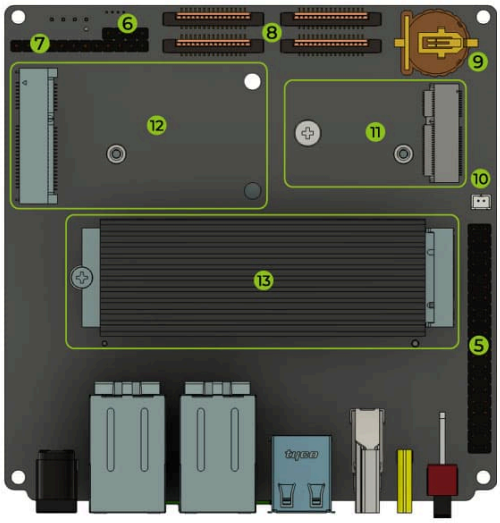
1. DIP Switch
2. Type C USB 2.0
3. HDMI 2.1
4. 4x Type A USB 3.2
5. 2x Pinhole Button
6. 2x LED Indicator
7. SIM Card Slot
8. 2x RJ45 Ethernet Port
9. Barrel DC Jack 5525

Top View



1. Nvidia Jetson Orin Module
2. Extension Board
3. 4-Pin Fan Connector (5V PWM)
4. 4-Pin Fan Connector (12V PWM)

Bottom View



5. 40-Pin Extension Header
6. CAN Header
7. 12-Pin control and UART header
8. 4x 15-Pin MIPI CSI
9. RTC Battery Socket(CR1220)
10. RTC 2-Pin Header(3V)
11. M.2 Key E Slot
12. Mini PCIe Slot
13. M.2 Key M Slot(with SSD)

Applications

- **Designed for Developers — Out-of-the-Box Experience::** Whether you're an experienced developer or a complete beginner for embedded AI/GPU inference, use reComputer Super AI box as your first AI workstation, together diving into NVIDIA Jetson for Beginners — your fast track to vision AI, Generative AI, and robotics development! Through these tutorials, you will learn:
- **From Zero to Real Projects: Master Linux basics on the Jetson environment to build an end-to-end AI NVR/AMR.**
- **Hardware Integration: Tailored for reComputer Jetson devices for a seamless, out-of-the-box experience.**
- **Coverage of Cutting-Edge Domains: Deep dive into CV, GenAI, ROS, agentic AI, and TensorRT optimization.**
- **Toolchain Mastery: Hands-on tutorials with NVIDIA JetPack SDK, CUDA, DeepStream, PyTorch, and TensorFlow.**
- **To improve the developer experience, Seeed offers reComputer AI Lab — a platform that helps you deploy AI applications with one-click tools and ready-to-use resources. It includes optimized edge AI model demos for CV, LLM, VLM, interactive tutorials, deployment tools, containerized applications, and community projects to speed up development on Jetson.**
- **Seeed Jetson Develop Tool is a desktop client for all developers who are going to use reComputer Jetson device for the very first time. It brings the common bring-up and development workflow into one GUI: firmware flashing, first-boot initialization, device diagnostics, remote development, app deployment, skill-based automation, OTA updates, and community resources. All we provide here is to help you to get started with Seeed reComputer Jetson hardware much more easily and seamlessly.**
- **Ready to build a solution for the real world? We have Jetson-example prepared for you! It offers one-line deployable projects compatible with generative AI large models, including LeRobot, Ollama, Qwen, etc; with computer vision such as Ultraslytics YOLO26. We have configured all environment setups for you to provide a single command deployment of projects, easy to try out/verify if the trending model performance is suitable for your GPU needs and application scenarios.**
- **Designed for Multi-Camera Vision AI::** Powered by the reComputer Super AI box, the system supports up to 4x USB cameras or MIPI-CSI cameras to create a 360° panoramic vision network. Leveraging the advanced spatial foundation model, it processes multiple real-time video streams simultaneously to deliver accurate depth perception, comprehensive environmental awareness, and real-time blind-spot elimination for safer autonomous operation.

Resource Links

- https://www.seeedstudio.com/reComputer-Super-J4012-p-6443.html
- User Manual&Datasheet
- Temperature Test Report
- Schematic
- 3D File
- Mechanical Document-reComputer Super
- Mechanical Document-reComputer Super PCBA
- Seeed Nvidia Jetson Success Cases
- Seeed Jetson One Pager
- Flash BSP for Jetson

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