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INDUSTRIAL PRODUCT DATASHEET

reComputer Mini J4012 with Extension - Intelligent Edge AI Computer with NVIDIA® Jetson™ Orin™ NX 16GB

reComputer Mini J4012 with extension is a tiny AI computer powered by NVIDIA® Jetson Orin™ NX 16GB module,delivering up to 100 TOPS AI performance.

SKU	UPDATED	PRICE
114993553	2026-11-11 09:38:19	$999.00(Excl. VAT)



Overview



reComputer Mini J4012 with extension is a tiny AI computer powered by NVIDIA® Jetson Orin™ NX 16GB module,delivering up to 100 TOPS AI performance. It's equipped with PCIe port at the bottom to provide rich expansion capabilities, including up to 8 USB ports and dual CAN, which also can be customized flexibly. The whole system is designed for embedding into autonomous machines such as drones, patrol robots, delivering robots, etc. It can directly occupy 54V DC input, able to be widely used in battery powered systems.

Key Features

01 **Brilliant AI Performance for Production**

Achieves up to 100 TOPS AI performance with low power and latency, built by NVIDIA Orin SoC combining the NVIDIA Ampere™ GPU architecture with 64-bit operating capability, integrated advanced multi-function video and image processing, and NVIDIA Deep Learning Accelerators.

02 **Hand-Size Edge AI Device**

Compactsize at 63mm x 95mm x 66.7mm, featuring an NVIDIA Jetson Orin NX 16GB module, Mini J401 carrier board, fan and enclosure. Support desktop and wall mounting.

03 **Expandable with Rich I/Os**

Includes up to8x USB, DP 1.4, 1x RJ45 for GbE, M.2 Key E, M.2 Key M, dual channel CAN, and GPIO.

04 **Accelerate Solutions to Market**

Pre-installed JetPack 6.0 on 128GB NVMe SSD, Linux OS BSP, supporting Jetson software and leading AI frameworks.

05 **Scale to deploy**

support OTA, remote management services powered by Allxon and Balena.

06 **Flexible Customization**

inlcudeschanging accessories modules, logo, and hardware interfaces modification based on reComputer Mini J4012 original design.

Product Gallery





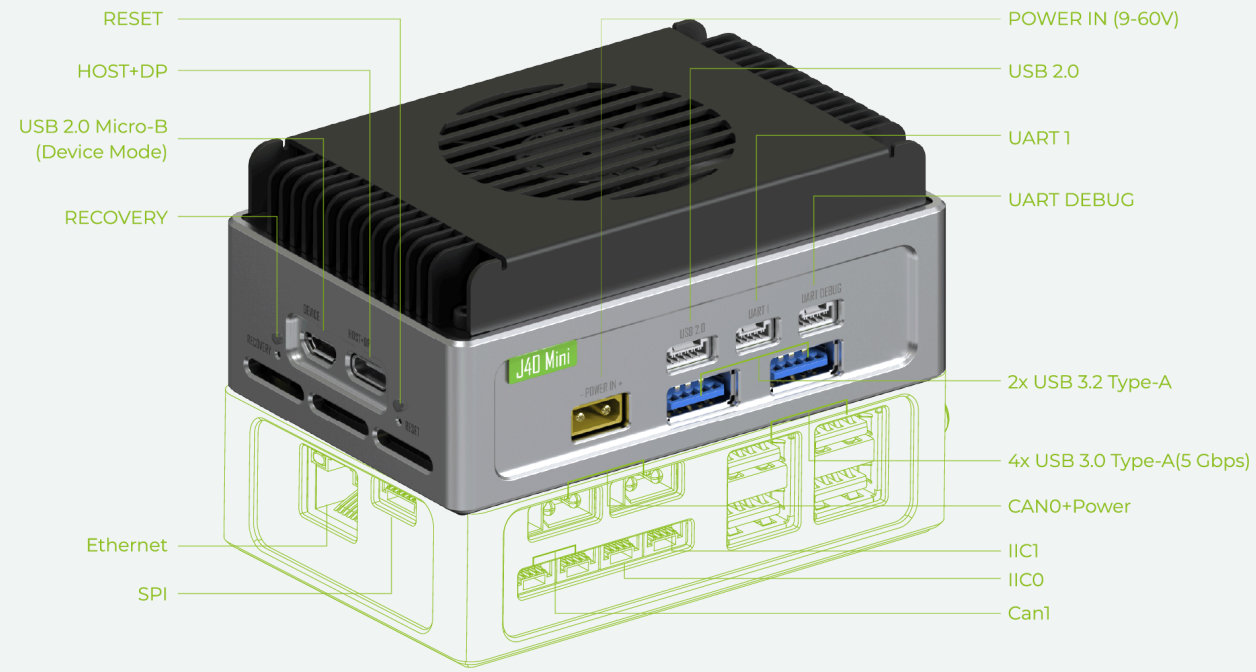








Hardware Overview



Applications

- **Robotic Control**
- **Capable of Bringing Generative AI to the Edge:** Now you can build AI agents capable of processing large amounts of live or archived videos and images with Vision-Language Models (VLM) such as LLaVA, this new AI agents help nearly every industry summarize, search, and extract actionable insights from video using natural language.
- **Build Multi-streams AI Video Analytics:** For building video analytics, Jetson Orin NX incorporates the NVIDIA Multi-Standard Video Decoder. This video decoder accelerates video decode, supporting low resolution mobile content, Standard Definition (SD), High Definition (HD) and UltraHD (8K, 4K, etc.) reComputer J4012 can take 18x1080p30 streams. See our tested YOLOv8 performance using NVIDIA Deepstream of single model and multi model on multi streams.
- **Fastest Way to Deploy Generative AI and Computer Vision Models:** We have jetson-example prepared for you! It offers one-line deploy projects edge AI applications of generative AI including Ollama, Llama3; computer vision including YOLOv8; and others. We have configured all environment for you to provides single command deployment of projects.

Resource Links

- https://www.seeedstudio.com/reComputer-Mini-J4012-with-Extension-p-6353.html
- Datasheet
- Schematic
- 3D File
- Seeed Nvidia Jetson Product Catalog
- Nvidia Jetson Comparison
- Nvidia Jetson Product Comparison
- Seeed Nvidia Jetson Success Cases
- Seeed Jetson One Pager

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