seeed studio

INDUSTRIAL PRODUCT DATASHEET

reComputer J4012 (w/o power adapter) - Edge AI Computer with NVIDIA® Jetson™ Orin™ NX 16GB (Super Mode NOT Supported)

Powerful and compact edge AI device with NVIDIA® Jetson Orin™ NX SoM, pre-built Jetpack 5.1.1, 128GB SSD, 4x USB 3.2, HDMI, GbE, carrier board also includes M.2 key E for WIFI, M.2 Key M for SSD, RTC, CAN, 40-pin and more.

SKU	UPDATED	PRICE
110110184	2026-11-16 06:47:50	$1394.00(Excl. VAT)



Overview



Powerful and compact edge AI device with NVIDIA® Jetson Orin™ NX SoM, pre-built Jetpack 5.1.1, 128GB SSD, 4x USB 3.2, HDMI, GbE, carrier board also includes M.2 key E for WIFI, M.2 Key M for SSD, RTC, CAN, 40-pin and more. [Discount on First 5 Only] From the 6th unit onward, the original price will apply.

Key Features

01 **Brilliant AI Performance for production**

on-device processing with up to 100 TOPS AI performance with low power and low latency

02 **Hand-size edge AI device**

compact size at 130mm x120mm x 58.5mm, includes NVIDIA Jetson Orin™ NX 16GB production module, a cooling fan with a heatsink, enclosure, and a power adapter. Support desktop, wall mount, fit in anywhere

03 **Expandable with rich I/Os**

4x USB 3.2, HDMI 2.1, 2xCSI, 1xRJ45 for GbE, M.2 Key E, M.2 Key M, CAN, and GPIO.

04 **Accelerate solution to market**

pre-installed Jetpack with NVIDIA JetPack™ 5.1 on the included 128GB NVMe SSD, Linux OS BSP, 128GB SSD, support Jetson software and leading AI frameworks and software platforms

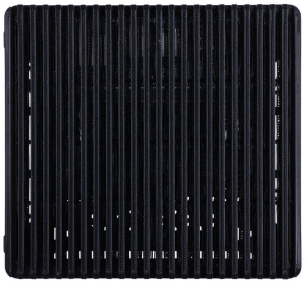
05 **Comprehensive certificates**

FCC, CE, RoHS, UKCA

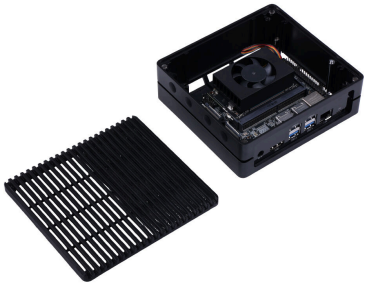
Product Gallery





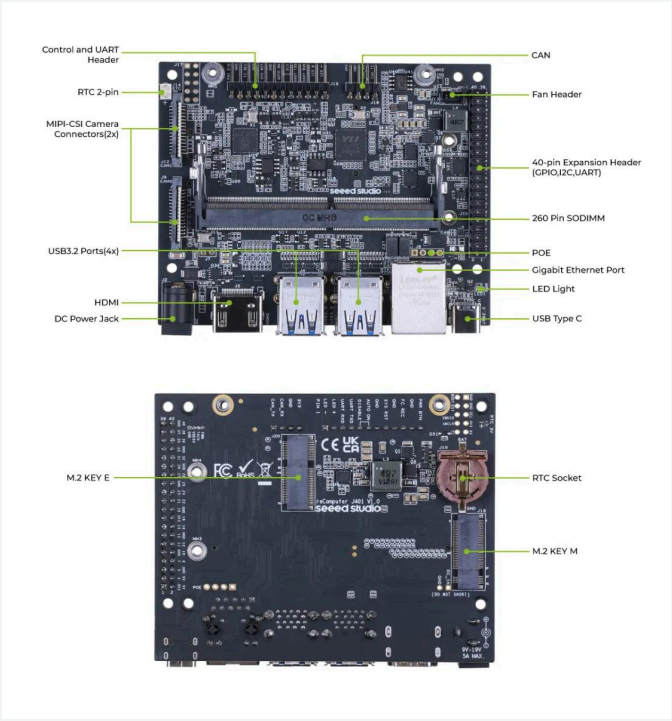








Hardware Overview







Applications

- **Application Fields:**
- **AI Video Analytics**
- **Machine Vision**
- **Autonomous Mobile Robot (AMR)**
- **Generative AI**
- **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-J4012-w-o-power-adapter-p-5628.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

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