seeed studio

INDUSTRIAL PRODUCT DATASHEET

reComputer J3011 (w/o power adapter) - Edge AI Computer with NVIDIA® Jetson™ Orin™ Nano 8GB (Support Super Mode)

reComputer J3011 (w/o power adapter) combines NVIDIA Jetson Orin Nano 8GB with upgradeable 67 TOPS performance for edge generative AI and multi-stream video analytics.

SKU	UPDATED	PRICE
110110186	2026-08-04 07:33:44	$744.00(Excl. VAT)

Overview

The reComputer J3011 (w/o power adapter) is powered by an NVIDIA Jetson Orin Nano 8GB module, and users can self-upgrade to JetPack 6.2 to boost AI performance from 40 TOPS to 67 TOPS in Super Mode.

Key Features

Price Increase Announcement
Date: February 28, 2026

Due to surging demand for modules and SSDs, prices for reComputer and reServer Jetson devices will increase by approximately $50 to $400 in the coming weeks. Please confirm your requirements and place your orders promptly to secure your stock.

Note

- reComputer J3011 is powered by the same NVIDIA Jetson Orin Nano 8GB production module.You can perform a self - **upgrade to Jetpack 6.2**. Once upgraded, you'll instantly experience a significant boost in computing power, with the performance leaping **from 40 Tops to 67 Tops**, offering capabilities comparable to those of the **NVIDIA Jetson Orin Nano Super Developer Kit**.
- For optimal performance with reComputer, we recommend using **128GB** / **256GB** / **512GB** / **1TB** 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.
- If you are looking for the version with power adapter, please check out **reComputer J3011 with power adapter**

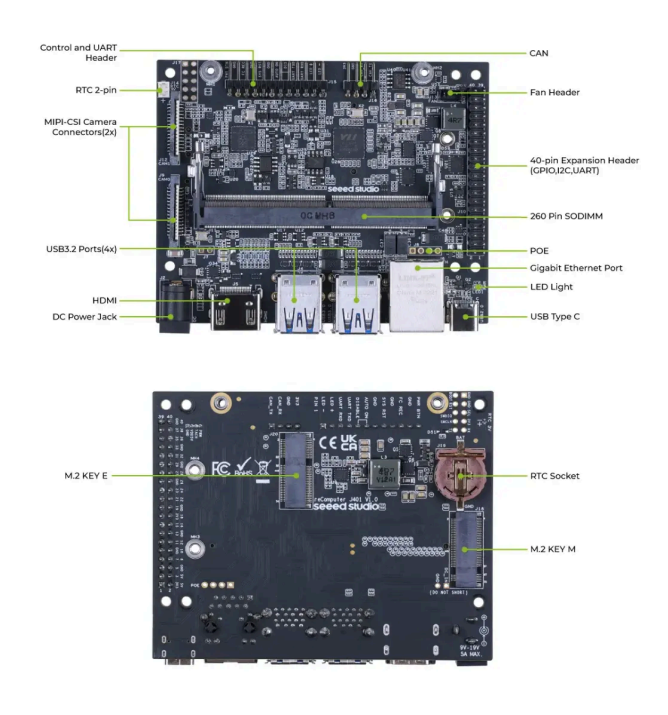
Product Gallery

Specification

Jetson Orin Nano System on Module		
AI Performance	reComputer J3011 - Jetson Orin Nano 8GB, up to 67 TOPS	reComputer J3010 - Jetson Orin Nano 4GB, up to 34 TOPS

GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores (Orin Nano 8GB)	512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores (Orin Nano 4GB)
CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3	
Memory	8GB 128-bit LPDDR5 68 GB/s (Orin Nano 8GB)	4GB 64-bit LPDDR5 34 GB/s (Orin Nano 4GB)
Video Encoder	1080p30 supported by 1-2 CPU cores	
Video Decoder	1x 4K60 (H.265) | 2x 4K30 (H.265) | 5x 1080p60 (H.265) | 11x 1080p30 (H.265)	
Carrier Board		
Storage		1x M.2 Key M PCIe (M.2 NVMe 2280 SSD 128G included)
Networking	Ethernet	1x RJ-45 Gigabit Ethernet (10/100/1000M)
	M.2 KEY E	1x M.2 Key E(pre-installed 1x Wi-Fi/Bluetooth combo module)
I/O	USB	4x USB 3.2 Type-A (10Gbps), 1x USB2.0 Type-C (Device Mode)
	Camera	2x CSI (2-lane 15pin)
	Display	1x HDMI 2.1
	Fan	1x 4 pin Fan Connector (5V PWM)
	CAN	1x CAN
	Multifunctional Port	1x 40-Pin Expansion header 1x 12-Pin Control and UART header
	RTC	1x RTC 2-pin, supports CR1220 but not included
Power		9-19V DC
Mechanical	Dimensions (W x D x H)	130mm x 120mm x 58.5mm (with case)
	Installation	Desk, wall-mounting
Operating Temperature		-10℃~60℃
Warranty		1 Year

Hardware Overview



Applications

- **Capable of Bringing Generatie 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 Nano 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 J3011 can take 11x1080p30 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.

Part List

reComputer J3011 (System Installed)	x1

Compliance & Logistics

HSCODE	8471419000
USHSCODE	8517180050
UPC	
EUHSCODE	8471707000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/reComputer-J3011-w-o-power-adapter-p-5630.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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