seeed studio

INDUSTRIAL PRODUCT DATASHEET

reComputer Industrial J4011-Fanless Edge AI Device with Jetson Orin™ NX 8GB module

The reComputer Industrial J4011 fanless Edge AI device with Jetson Orin™ NX 8GB module supports AI video analytics, machine vision, medical imaging, autonomous mobile robots (AMR), and generative AI, with a price increase...

SKU	UPDATED	PRICE
110110190	2026-10-12 10:34:18	$1299.00(Excl. VAT)



Overview



The reComputer Industrial J4011 is a fanless Edge AI device with Jetson Orin™ NX 8GB module, supporting AI video analytics, machine vision, medical imaging, autonomous mobile robots (AMR), and generative AI. A price increase is announced for February 28, 2026, and Seeed recommends using only the 128GB, 256GB, and 512GB SSDs from Seeed for compatibility.

Key Features

Price Increase Announcement
Date: February 28, 2026

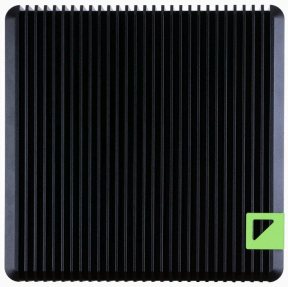
Due to surging demand for modules and SSDs, prices for reComputer and reServer Jetson devices will increase by approximately $50 to $400 in the coming weeks. Please confirm your requirements and place your orders promptly to secure your stock.

Note

If you want to use SSDs with reComputer, we only recommend you choose the **128GB**, the **256GB**, and the **512GB** versions from Seeed, because some of the SSDs in the market will work with this product under a particular JetPack version and some will not work with a different JetPack version. Even the official NVIDIA dev kits have the same behavior with SSDs.

Product Gallery



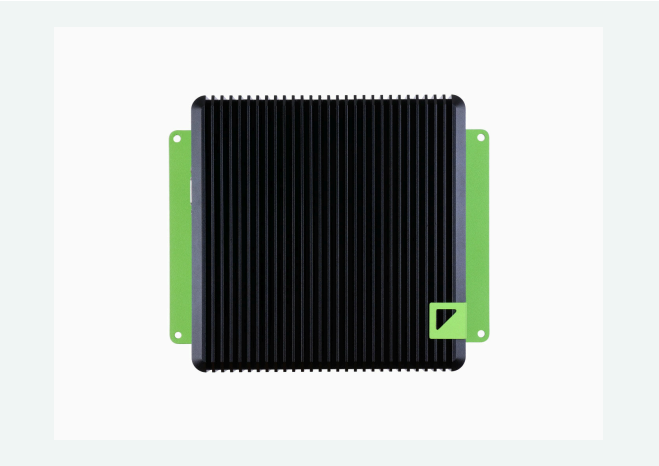














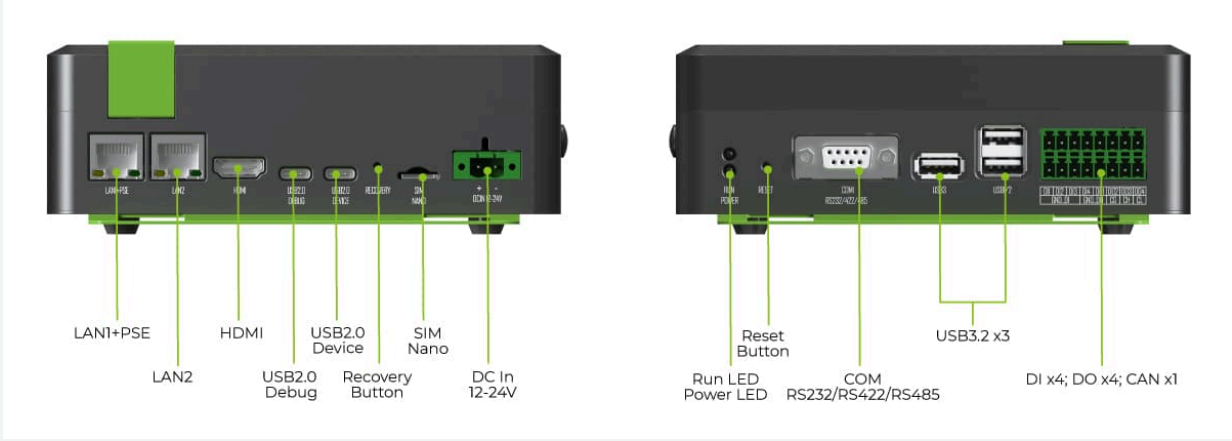


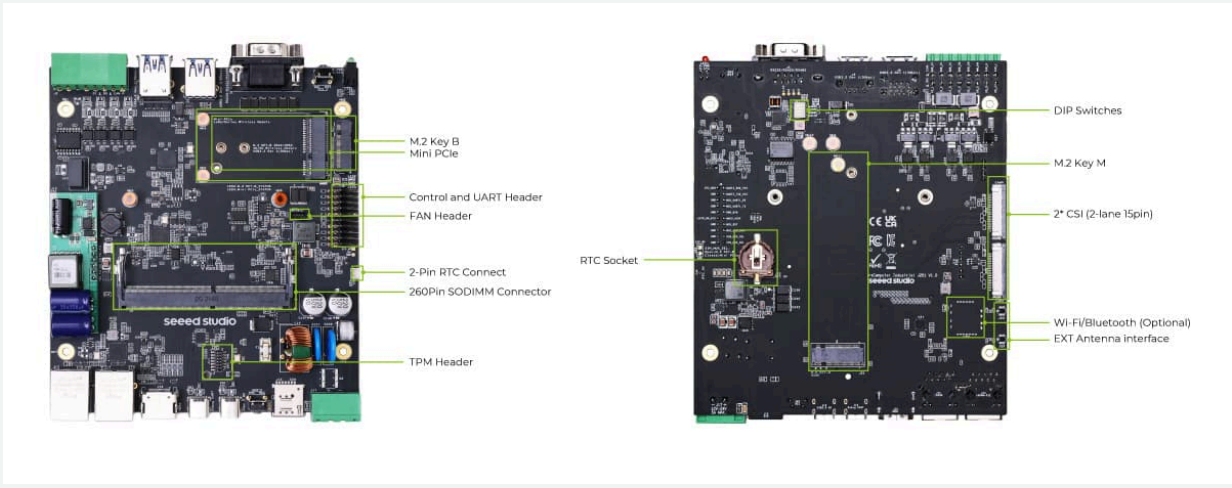
Specification

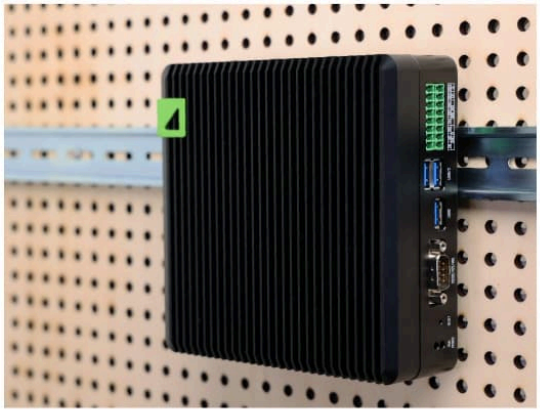
Jetson Orin NX System on Module		
AI Performance	reComputer Industrial J4012 - Orin NX 16GB, 100 TOPS	reComputer Industrial J4011- Orin NX 8GB, 70 TOPS
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU (Orin NX 16GB)	6-core Arm® Cortex®-A78AE (Orin NX 8GB)
Memory	8GB 128-bit LPDDR5 (Orin NX 8GB)	
Video Decode	1x 8K30 (H.265) 2x 4K60 (H.265) 4x 4K30 (H.265) 9x 1080p60 (H.265) 18x 1080p30 (H.265)	
Video Encode	1x 4K60 (H.265) 3x 4K30 (H.265) 6x 1080p60 (H.265) 12x 1080p30 (H.265)	
DL Accelerator	2x NVDLA v2	
Carrier Board		
Storage		1x M.2 Key M PCIe Gen4.0 SSD (M.2 NVMe 2280 SSD 128G included)
Networking	Ethernet	1x LAN1 RJ45 GbE PoE(PSE 802.3 af 15 W) 1x LAN2 RJ45 GbE (10/100/1000Mbps)
	Wi-Fi	Support SMD Wi-Fi/Bluetooth (Customized production, please contact order@seeed.cc)
	M.2 Key B	1x M.2 Key B support 4G/5G (Module optional)

I/O	USB	3x USB3.2 Gen1, 1x USB2.0 Type C(Device mode), 1x USB2.0 Type C For Debug UART & RP2040
	DI/DO	4x DI,4x DO, 3x GND_DI, 2x GND_DO, 1x GND_ISO,1x CAN
	COM	1x DB9 (RS232/RS422/RS485)
	Display	1x HDMI 2.0 Type A
	SIM	1x Nano SIM card slot
	Fan	Fanless, passive heatsink; 1x Fan connectors(5V PWM)
	TPM	1x TPM 2.0 connector (Module optional)
	RTC	1x RTC socket, 1x RTC 2-pin
	Camera	2x CSI (2-lane 15pin)
Power	Power Supply	DC 12V-24V Terminal block 2 pin
	Power Adapter	19V Power Adapter(without power cord)
Mechanical	Dimensions (W x D x H)	159mm x 155mm x 57mm
	Weight	1.57kg
	Installation	Desk, DIN rail, wall-mounting, VESA
Environment	Operating Temperature	-20 ~ 60°C with 0.7m/s airflow
	Operating Humidity	95% @ 40 °C (non-condensing)
	Vibration	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis
	Shock	50G peak acceleration (11 msec)
Warranty		2 Years
IP Rating		IP40

Hardware Overview







DIN Rail



Wall Mount

Applications

- **AI Video Analytics**
- **Machine Vision**
- **Medical Imaging**
- **Autonomous Mobile Robot (AMR)**
- **Generative AI**

Part List

reComputer Industrial J4011 (System Installed)	x1
19V Power Adapter(without power cord)	x1

Compliance & Logistics



HSCODE	8471504090
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-Industrial-J4011-p-5681.html
- Datasheet
- Schematic
- 3D File
- Assembly Guide
- MTBF Test Report
- Github
- 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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