seeed studio

INDUSTRIAL PRODUCT DATASHEET

reComputer Industrial J3010- Fanless Edge AI Device with Jetson Orin™ Nano 4GB

reComputer Industrial J3010 - Fanless Edge AI Device with Jetson Orin™ Nano 4GB, supporting generative AI and video analytics, with a price increase announced for February 28, 2026.

SKU	UPDATED	PRICE
110110192	2026-08-10 06:03:23	$899.00(Excl. VAT)



Overview



The reComputer Industrial J3010 is a fanless edge AI device with Jetson Orin™ Nano 4GB, designed for AI video analytics, machine vision, autonomous mobile robots, and generative AI. A price increase of approximately $50 to $400 is expected by February 28, 2026, and for SSD use, only the 128GB, 256GB, and 512GB versions from Seeed are recommended due to compatibility.

Key Features

Price Increase Announcement
Date: February 28, 2026

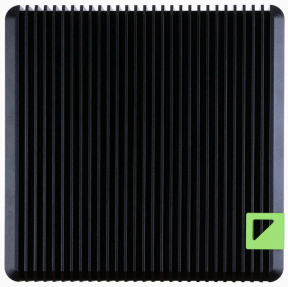
Due to surging demand for modules and SSDs, prices for reComputer and reServer Jetson devices will increase by approximately $50 to $400 in the coming weeks. Please confirm your requirements and place your orders promptly to secure your stock.

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



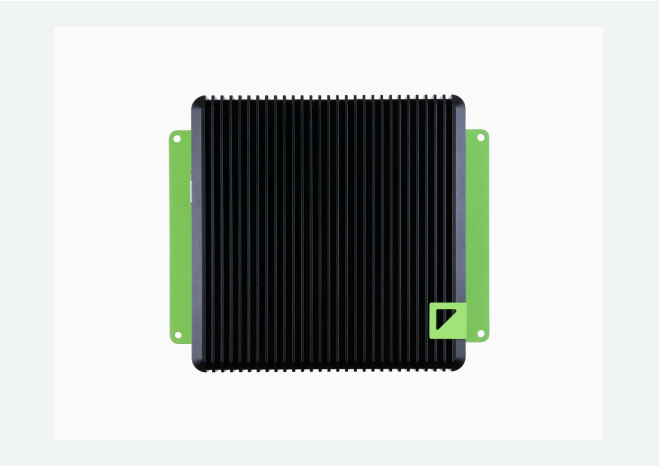














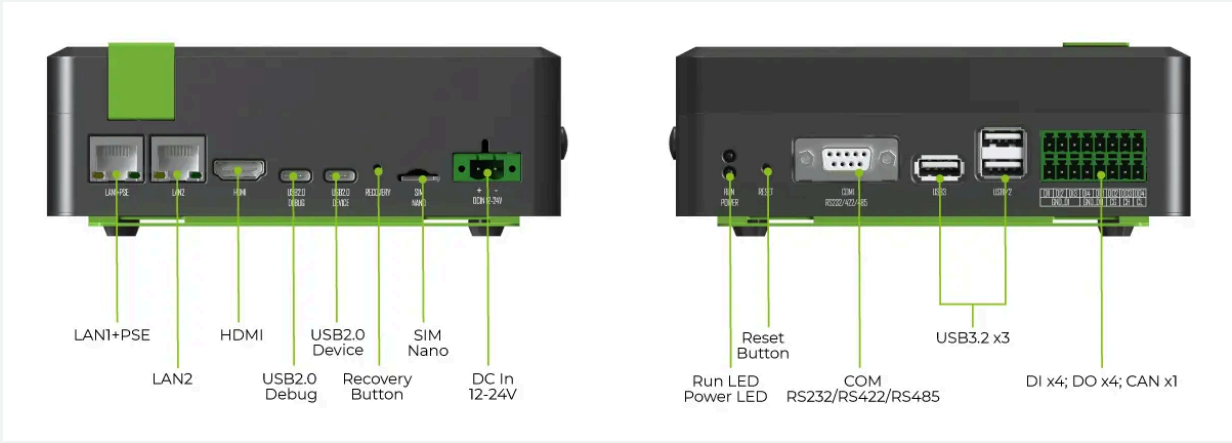


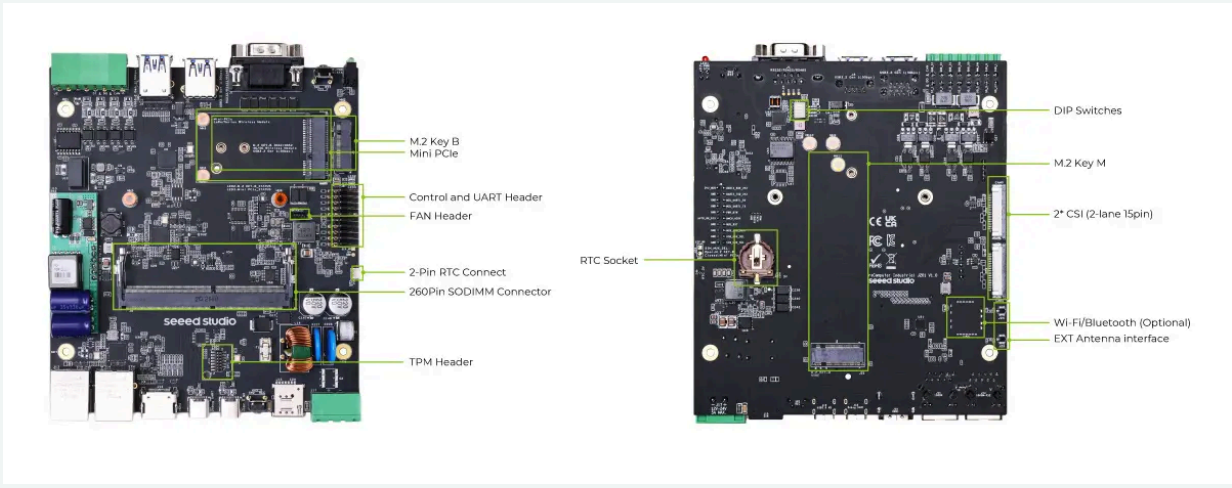
Specification

Jetson Orin Nano System on Module		
AI Performance	reComputer Industrial J3011 - Orin Nano 8GB, 40 TOPS	reComputer Industrial J3010 - Orin Nano 4GB, 20 TOPS
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores
CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3	
Memory	8GB 128-bit LPDDR5 68 GB/s	4GB 64-bit LPDDR5 34 GB/s
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 LAN1 RJ45 GbE PoE(PSE 802.3 af 15 W) 1x LAN2 RJ45 GbE (10/100/1000Mbps)

I/O	USB	3x USB3.2 Gen1, 1x USB2.0 Type C (Device mode), 1x USB2.0 Type C For Debug UART & RP2040
	Display	1x HDMI Type A; 1x DP
	Fan	1x 4 pin Fan Connector (5V PWM)
	DI/DO	4x DI, 4x DO, 3x GND_DI, 2x GND_DO, 1x GND_ISO,1x CAN
	COM	1x DB9 (RS232/RS422/RS485)
	SIM	1x Nano SIM card slot
Expansion	Mini PCIe	Mini PCIe for 4G/LoRaWAN® (Module optional)
	WiFi	Support SMD Wi-Fi/Bluetooth (Customized production, please contact order@seeed.cc)
	M.2 Key B	M.2 Key B support 4G/5G (Module optional)
	Fan	Fanless, passive heatsink1*Fan connectors(5V PWM)
	TPM	1x TPM 2.0 connector (Module optional)
	RTC	1x RTC socket, 1* RTC 2-pin
	Camera	2x CSI (2-lane 15pin)
Power		DC 12V-24V Terminal block 2 pin
		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
	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

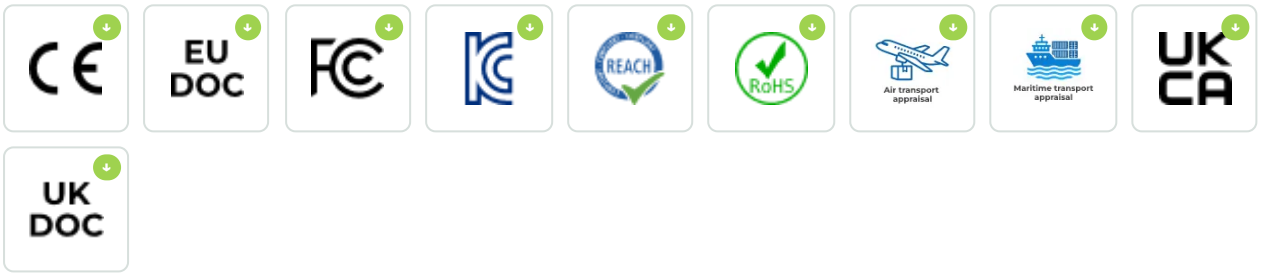
Applications

- **AI Video Analytics**
- **Machine Vision**
- **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.) .
- **Fastest Way to Deploy Generative AI and Computer Vision Models:** We have jetson-example (https://github.com/Seeed-Projects/jetson-examples) 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 Industrial J3010 (System Installed)	x1
Mounting bracket	x2
DIN rail bracket	x1
Bracket screw	x4
16-Pin Terminal Block for DIO	x1
19V Power adapter (power cord sold separately)	x1
2-Pin Terminal block power connector	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-J3010-p-5686.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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