

INDUSTRIAL PRODUCT DATASHEET

reComputer J401 Nano Bundle with Jetson Orin™ Nano 8GB in Super Mode

reComputer J401 Nano Bundle: 67 TOPS edge AI with Jetson Orin Nano 8GB Super Mode, ready for deployment in AI video analytics, AMRs, and generative AI applications.

SKU

100088050

UPDATED

2026-08-01 09:42:59

PRICE

\$699.00(Excl. VAT)



Overview

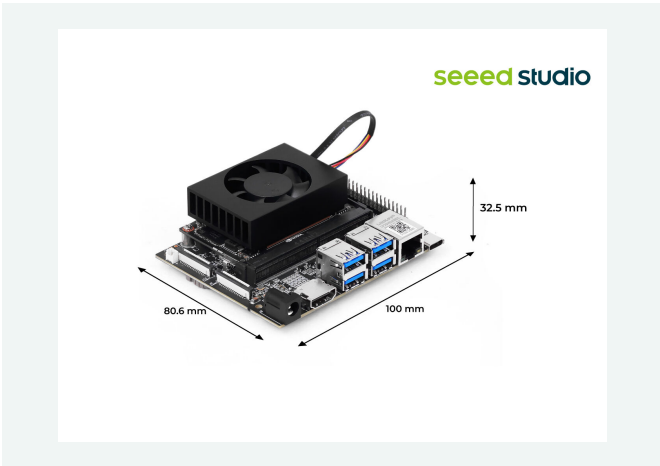
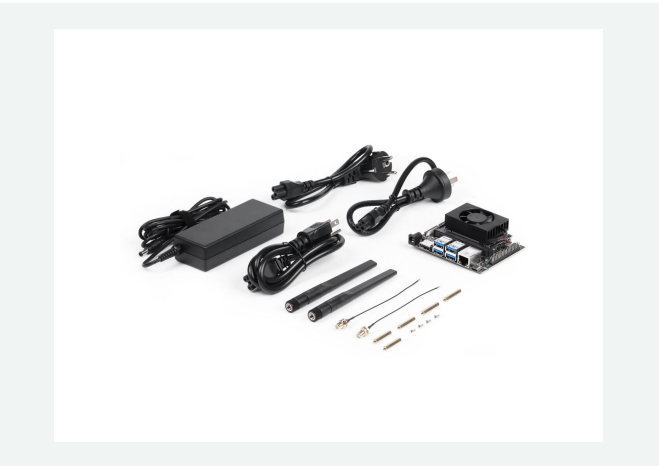
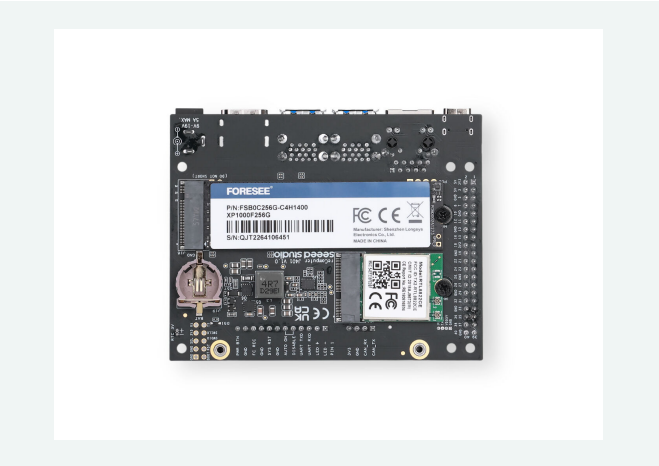
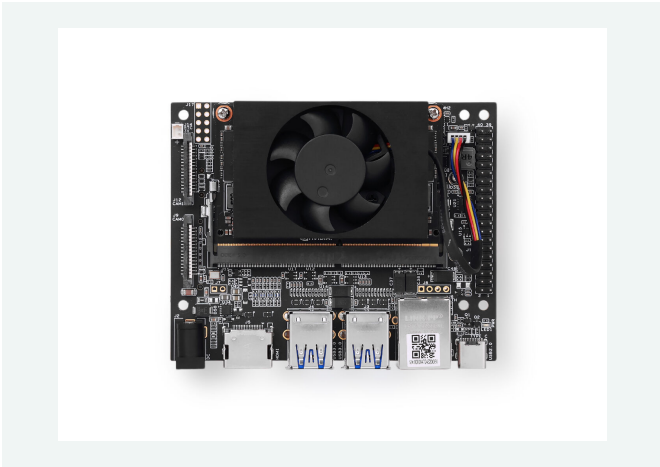
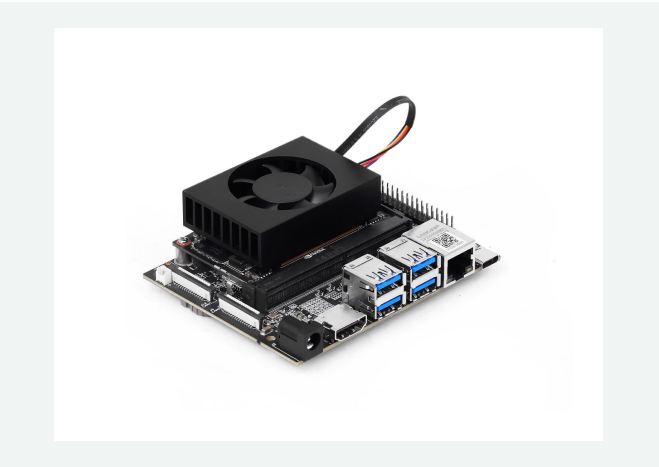


The reComputer J401 Nano Bundle delivers 67 TOPS AI performance in Super Mode with low power, featuring an NVIDIA Orin Nano 8GB SoC and rich interfaces including 4xUSB 3.2, HDMI 2.1, and pre-installed Wi-Fi/BT and 256GB SSD. Ideal for AI video analytics, AMRs, and generative AI at the edge, it supports NVIDIA Isaac, Hugging Face, and ROS2/1 for rapid development.

Key Features

- **AI Performance:** Supports 67 TOPS AI performance in **Super Mode** 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.
- **Energy-Efficient Operation:** Configurable power modes from 7W to 15W allow for optimized performance and energy consumption. Also 25W in Super Mode.
- **Robust Thermal Design:** Operates reliably in temperatures from -10°C to 60°C .
- **Rich interfaces:** Features 1xRJ45, 4×USB 3.2, HDMI 2.1, 2xCSI for connectivity and cameras, RTC, CAN, 40-pin and more. Also pre-installed a Wi-Fi/BT combo module, a 256GB SSD.
- **Ready for Deployment:** Very suitable for beginners and developers. Supports AI frameworks like NVIDIA Isaac, Hugging Face, and ROS2/1, enabling rapid development of various AI applications.
- Memory Bandwidth Upgrade
- Higher Throughput
- Improved higher frame rate processing
- Enhanced Power Management
- Reduced Inference Latency

Product Gallery

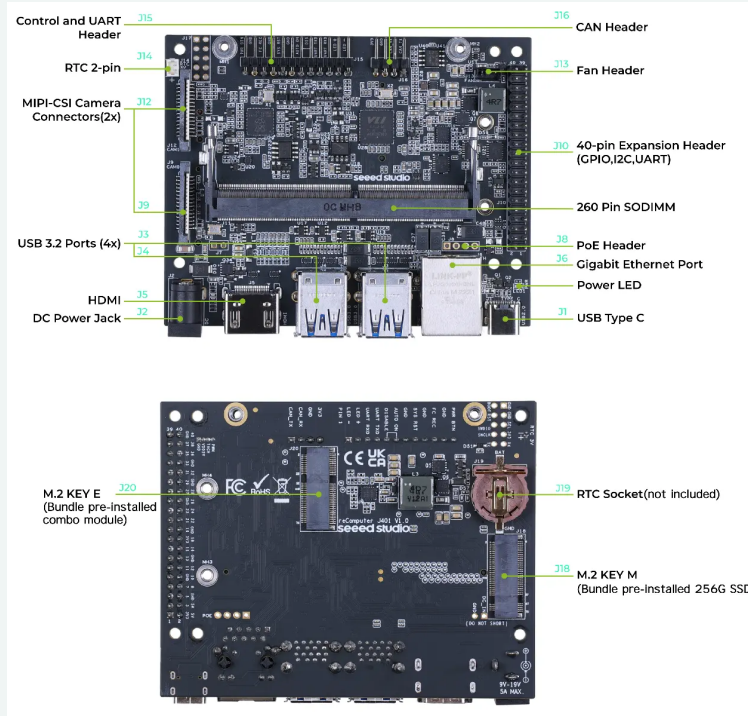


Specification

Jetson Orin Nano System on Module	
	reComputer J401 Nano Bundle
Module	Jetson Orin Nano 8GB (Super Mode)

AI Performance	up to 67 TOPS	
NVIDIA GPU Cores	1024 CUDA Cores with 32 Tensor Cores	
GPU Max Frequency	1020 MHz	
CPU	6x A78 1.7 GHz	
Memory	8GB 128-bit LPDDR5 102 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)	
Module Power	7W 15W 25W	
JetPack	JetPack 6.2 (support JetPack 7.2)	
Carrier Board		
Storage	1x M.2 KEY M PCIe(M.2 NVMe 2280 SSD 256G included)	
Networking	M.2 KEY E	1x M.2 Key E (WiFi/BT module included)
	Ethernet	1x RJ45 Gigabit Ethernet(10/100/1000M)
I/O	USB	4x USB 3.2 Type-A (10Gbps) 1x USB2.0 Type-C (Device Mode)
	Camera	2x Mipi CSI (2-lane 15-Pin)
	Display	1x HDMI 2.1
	Fan	1x 4-Pin 1.25mm Fan Connector (5V PWM)
	CAN	1 x CAN
	Multifunctional Port	1x 40-Pin Expansion header 1x 12-Pin Control and UART header
	RTC	1x RTC 2-Pin 1x RTC Socket (supports CR1220 but not included)
Power	9-19V 5525 Barrel DC Jack	
Mechanical	Dimensions (W x D x H)	100mm x 80.6mm x 32.5mm
	Weight	168.0g
	Installation	Desk (Copper column include)
Operating Temperature	-10°C~60°C	
Warranty	2 Years	
Certification	RoHS,CE,FCC	

Hardware Overview



Applications

- **AI Video Analytic**
- **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 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 13x1080p30 streams. See our tested YOLOv8 performance using NVIDIA Deepstream of single model and multi model on multi streams.

Part List

Seeed Carrier Board (reComputer J401)	x1
Jetson Orin Nano 8GB Module	x1
256GB SSD (System Installed)	x1
Heatsink with Fan	x1
Wi-Fi Module	x1
Wi-Fi Antenna Kit	x2
19V-4.74A Power Adapter(Barrel Jack 5.5/2.5mm, Power cord not included)	x1
AC Cloverleaf Power Cord - US/EU/CN	x3
Copper column	x5
Screw	x5

Compliance & Logistics



HSCODE	8471504090
USHSCODE	8473309100
UPC	
EUHSCODE	8471800000
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-J401-Nano-Bundle-p-6625.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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