

INDUSTRIAL PRODUCT DATASHEET

reComputer Classic J5012, Ultimate AI Developer Kit with NVIDIA® Jetson AGX Orin™ 64GB

The reComputer Classic J5012 with NVIDIA® Jetson AGX Orin™ 64GB delivers up to 275 TOPS, 64GB LPDDR5, and pre-installed Jetpack 6.2.2 for high-performance edge AI development and deployment at any quantity.

SKU

100003716

UPDATED

2026-09-23 06:06:48

PRICE

\$3999.00(Excl. VAT)



Overview



The reComputer Classic J5012 is an AI developer kit built on NVIDIA® Jetson AGX Orin™ 64GB, delivering up to 275 TOPS with 64GB LPDDR5, 204 GB/s memory bandwidth, and 64GB eMMC 5.1, while supporting power configurations from 15W to 60W. It comes pre-installed with Jetpack 6.2.2 (upgradeable to Jetpack 7.2) and provides high-speed interfaces such as PCIe x 16 Connector, 1x 10GbE, 1x Display Port, 16 lanes MIPI CSI-2, USB 3.1 interfaces, and a 40-pin header, along with resources like reComputer AI Lab and Jetson Examples for accelerated edge AI deployment.

Key Features

- **Pre-installed Jetpack** : Pre-installed Jetpack 6.2.2 and supports Jetpack 7.2. Includes Jetson Linux 36.5 featuring Linux Kernel 5.15, UEFI based bootloader, Ubuntu 22.04 based root file system, NVIDIA drivers, necessary firmwares, toolchain and more.
- **Most powerful AI developer kit for edge computing**: up to 275 TOPS, 8 times AI performance compared to Jetson AGX Xavier. Power configurable between 15W and 60W.
- **Onboard memory**: 64GB LPDDR5, 204 GB/s of memory bandwidth, and 64 GB of eMMC 5.1.
- **High-speed interface support for multiple sensors**: PCIe x 16 Connector, 1x 10GbE, 1x Display Port, 16 lanes of MIPI CSI-2, USB 3.1 interfaces, and a 40-pin header.
- **Camera connection**: Compatible with third-party camera expansion boards that are compatible with NVIDIA® Jetson AGX Orin™ 64GB Developer Kit
- **No sales limit**: Available at any quantity as needed, enabling mass volume deployment and project acceleration.

Product Gallery



Specification

Jetson AGX Orin 64GB System on Module		
AI Perfomance	Jetson AGX Orin 64GB - 275 TOPS	
CPU	NVIDIA Ampere architecture with 2048 NVIDIA® CUDA®cores and 64 Tensor cores	
CPU	I2-core Arm Cortex-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3	
DL Accelerator	2x NVDLA v2.0	
Vision Accelerator	PVA v2.0	
Memory	64GB 256-bit LPDDR5 204.8GB/s	
Storage	64GB eMMC 5.1	
Video Encode	2x 4K60 4x 4K30 8x 1080p60 16x 1080p30 (H.265)	
Video Decode	1x 8K30 3x 4K60 7x 4K30 11x 1080p60 22x 1080p30 (H.265)	
Power	15W-60W	

Carrier Board		
Storage		1x M.2 Key M - 4 x PCIe Gen 4(128G SSD module included)
Network	Ethernet	1x RJ45 - Up to 10GbE
	M.2 KEY E	1x PCIe Gen 4, USB 2.0, UART, I2S(Wireless module included)
I/O	USB	2x USB 3.0 Type-C ; 4x USB 3.1 Type-A 1x USB 2.0 Micro-B
	Camera	16 lane MIPI CSI-2 connector
	Display	DisplayPort 1.4a (+MST)
	Fan	1x 4-pin Fan header
	PCIe	16x PCIe slot supporting:8x PCIe Gen4
	RTC	2-pin RTC battery backup connector
	Other	40-pin header (I2C, GPIO, SPI, CAN, I2S, UART, DMIC) 12-pin automation header 10-pin audio panel header 10-pin JTAG header DC power jack Power, Force Recovery, and Reset buttons
Power		9-20V
Dimension		110mm x 110mm x 73mm(Height includes feet, carrier board, module, and thermal solution)

Hardware Overview

Side View 1



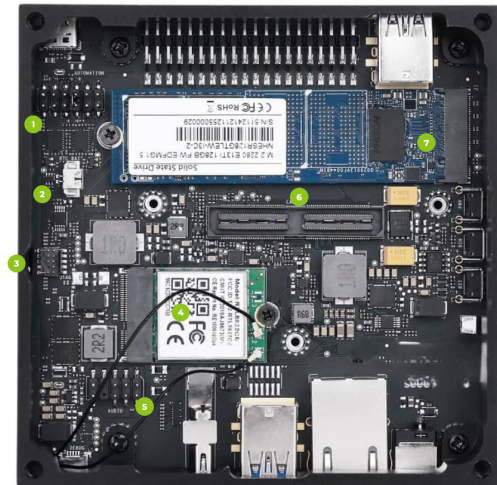
- 1 Power Button
- 2 Recovery Button
- 3 Reset Button
- 4 LED - Power/ACT
- 5 USB Type-C - Power
- 6 DC 5525 9~ 20 V
- 7 10 GbE
- 8 USB Type-A x 2
- 9 Display Port

Side View 2



- 1 PCIe x16 Expansion
- 2 USB Type-C for flashing
- 3 40-pin connector
- 4 USB 3.1 Type-A x 2

Bottom View



- 1 Automation Header
- 2 RTC Battery Connector
- 3 JTAG Header
- 4 M.2 Key E (WiFi/BT Module Included)
- 5 Audio Header
- 6 Camera Connector
- 7 M.2 Key M (128G SSD included)

Applications

- Jetpack 7.2 update:** Use Jetson Develop Tool to update to Jetpack 7.2 (https://seeedstudio88-my.sharepoint.com/:u:/g/personal/youjiang_yu_seeedstudio88_onmicrosoft_com/IQCM41KlCHH0QLi6cq9NNpwMAcv1YTiJf378h2sOOsdNAa4?e=cUNQPi) for agentic AI skills package, Yocto BSP and memory optimization. Learn more about Jetpack 7.2 here (https://wiki.seeedstudio.com/jetpack_7_2_resource_hub/) and a deep dive (https://wiki.seeedstudio.com/jetpack72_deep_dive_bk/) into what you can get from Jetpack 7.2.
- reComputer AI Lab:** Seeed offers reComputer AI lab, a platform that helps you deploy AI applications with one-click tools and ready-to-use resources. It includes optimized edge AI model demos for CV, LLM, VLM, interactive tutorials, deployment tools (<https://sensecraft.seeed.cc/ai-lab/tools>), containerized applications, and community projects to speed up development on Jetson.
- Jetson Examples:** We have Jetson-example (<https://github.com/Seeed-Projects/jetson-examples>) prepared for you! It offers one-line deployable projects compatible with generative AI large models, including LeRobot, Ollama, Qwen, etc; with computer vision such as Ultralytics YOLO26. We have configured all environment setups for you to provide a single command deployment of projects, easy to try out/verify if the trending model performance is suitable for your GPU needs and application scenarios.

Part List

reComputer Classic J5012	x1
Power Adapter AC Power 19V 4.94A	x1
USB-C Cable	x1
Type B (US, CA, JP) Power Cable	x1
Type I (CN) Power Cable	x1
Type B (TW) Power Cable	x1
UPC Label	x1
Quick Start and Support Guide	x1

Compliance & Logistics



HSCODE	8471504090
USHSCODE	8517180050
UPC	
EUHSCODE	8471707000
COO	

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-Classic-J5012-p-6881.html>
- [Datasheet](#)
- [3D File](#)
- [Selection of reComputer Jetson AGX Orin Series](#)
- [Seeed NVIDIA Jetson Hardware Catalog](#)
- [Jetpack 7.2](#)

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