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INDUSTRIAL PRODUCT DATASHEET

reComputer J2021 - Edge AI Computer with NVIDIA® Jetson Xavier™ NX 8GB

reComputer J2021 edge AI computer with NVIDIA® Jetson Xavier™ NX 8GB for autonomous mobile robots, AI video analytics, and machine vision applications.

SKU	UPDATED	PRICE
110061381	2026-08-13 09:47:12	$559.00(Excl. VAT)



Overview



The reComputer J2021 is an edge AI computer built on the NVIDIA® Jetson Xavier™ NX 8GB module, designed for applications such as autonomous mobile robots (AMR), AI video analytics, and machine vision. For optimal performance, Seeed recommends using 128GB/256GB/512GB/1TB SSDs from Seeed, noting that some third-party SSDs may only be compatible with specific JetPack versions; a version without a power adapter is also available.

Key Features

Note

- 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 without power adapter, please check out **reComputer J2021 without power adapter**.

Product Gallery









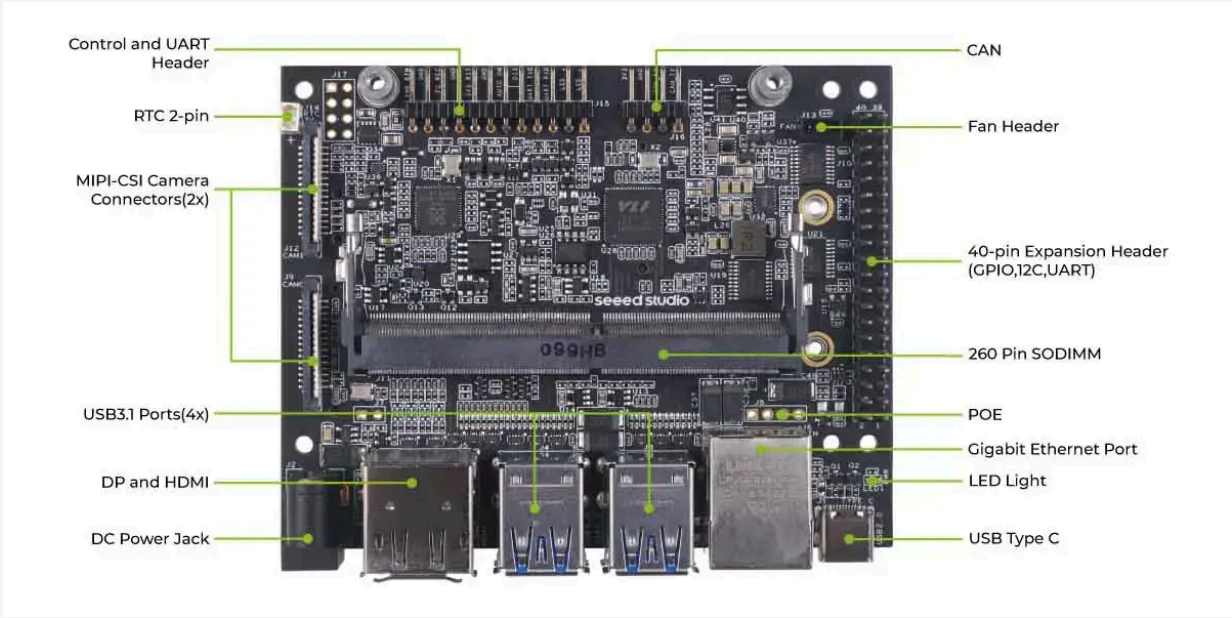


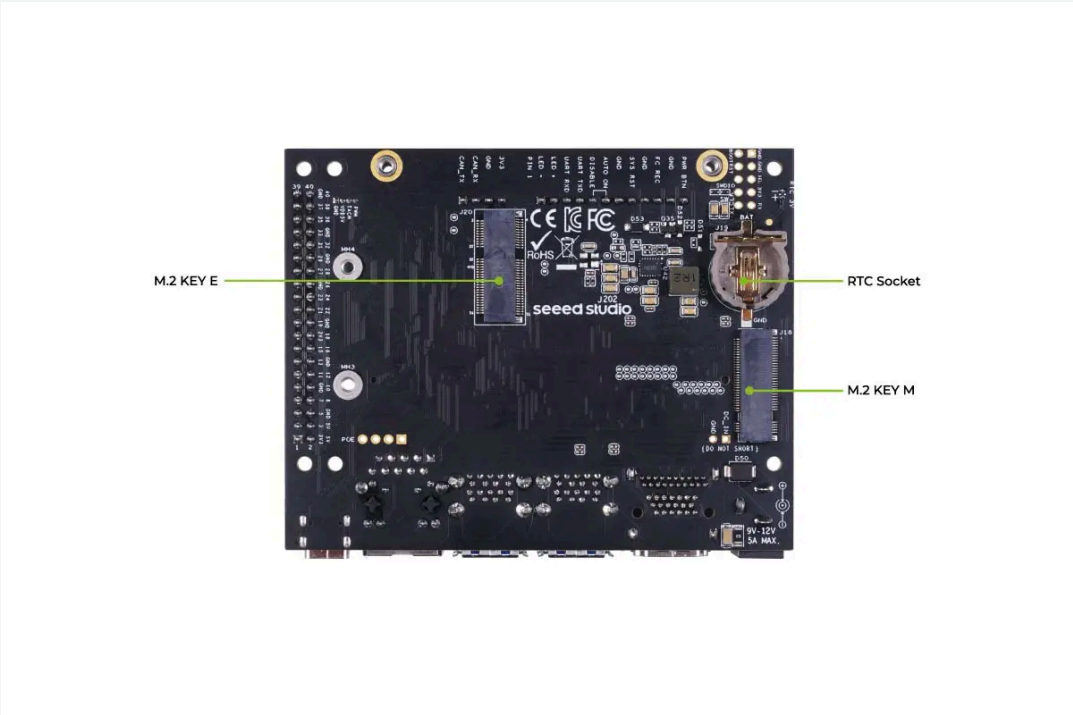
Specification

Jetson Xavier NX System on Module		
AI Performance	reComputer J2022, Xavier NX 16GB	reComputer J2021, Xavier NX 8GB
GPU	384-core NVIDIA Volta™ architecture GPU with 48 Tensor Cores	

CPU	6-core NVIDIA Carmel Arm®v8.2 64-bit CPU 6MB L2 + 4MB L3	
Memory	16 GB 128-bit LPDDR4x 59.7GB/s	8GB 128-bit LPDDR4x 59.7GB/s
Storage	16 GB eMMC 5.1	
Video Encoder	2x 4K60 | 4x 4K30 | 10x 1080p60 | 22x 1080p30 (H.265)	
Video Decoder	2x 8K30 | 6x 4K60 | 12x 4K30 | 22x 1080p60 | 44x 1080p30 (H.265)	
Carrier Board		
Storage		1x M.2 Key M PCIe
Networking	Ethernet	1x RJ45 Gigabit Ethernet Connector (10/100/1000)
	M.2 KEY E	1x M.2 Key E
I/O	USB	4x USB 3.1 Type A Connector； 1x USB Type-C (Device mode)
	CSI Camera	2x CSI Camera (15 pos, 1mm pitch, MIPI CSI-2)
	Display	1x HDMI Type A; 1x DP
	Fan	1x FAN connector(5V PWM)
	CAN	1x CAN
	Multifunctional Port	1x 40-Pin Expansion header
	RTC	RTC 2-pin RTC socket
Power		9-16V 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






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Applications

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

Part List

Acrylic Cover	1x
Aluminium Frame	1x
Jetson Xavier NX module	1x
Aluminum heatsink with fan	1x
Carrier board	1x
12V/5A(Barrel Jack 5.5/2.5mm) Power Adapter (Power cable not included)	1x

Compliance & Logistics

HSCODE	8471419000
USHSCODE	8517180050
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-J2021-p-5438.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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