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INDUSTRIAL PRODUCT DATASHEET

# reComputer J2021 (w/o power adapter) - Edge AI Computer with NVIDIA® Jetson™ Xavier NX 8GB

reComputer J2021 without power adapter: an edge AI system with Jetson Xavier NX 8GB for AI video analytics, machine vision, and AMR, requiring Seeed SSDs for optimal compatibility.

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 110061482 | 2026-06-10 12:35:01 | $551.00(Excl. VAT) |



# Overview




The reComputer J2021 (w/o power adapter) is an edge AI computer for AI video analytics, machine vision, and autonomous mobile robots, powered by the NVIDIA Jetson Xavier NX 8GB module. For optimal performance, Seeed recommends using their SSDs (128GB/256GB/512GB/1TB), as some market SSDs may cause compatibility issues with specific JetPack versions.

# Key Features

**Note**

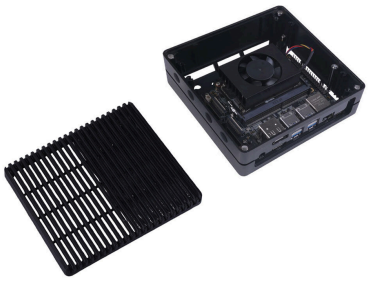
- For optimal performance with reComputer, we recommend using **128GB** / **256GB** / **512GB** / **1TB** SSDs from Seeed. Since some SSDs on the market may only be compatible with specific JetPack versions which may cause the device to fail to function properly, and this issue is also present with official NVIDIA dev kits.
- If you are looking for the version with power adapter, please check out **reComputer J2021 Edge device**

# Product Gallery







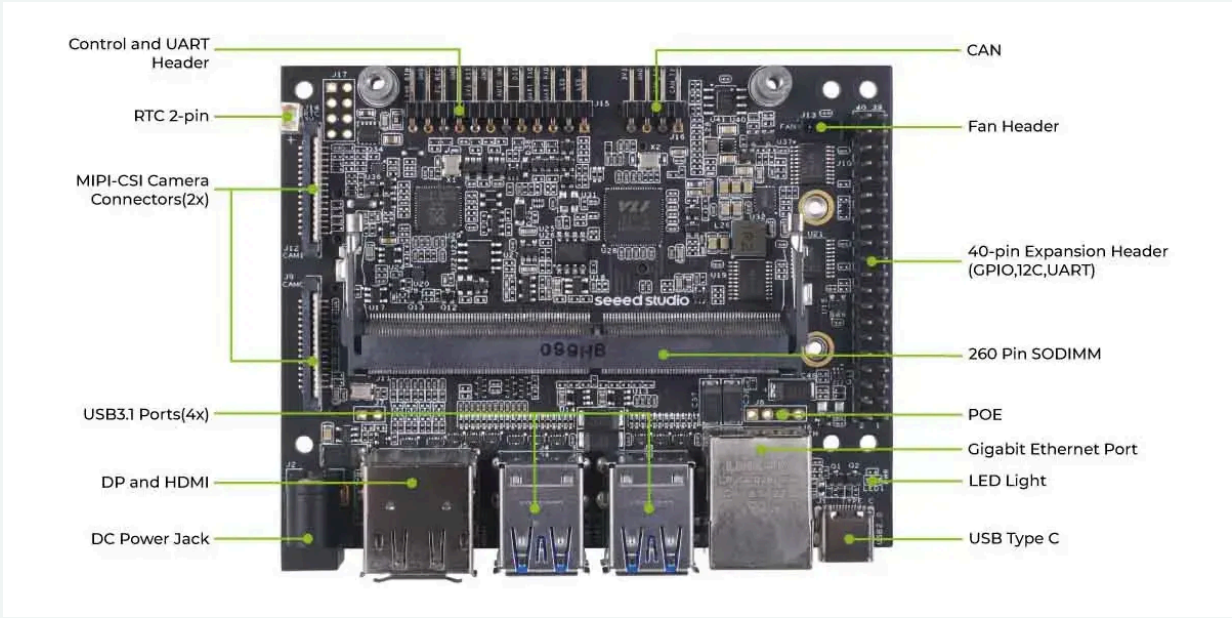



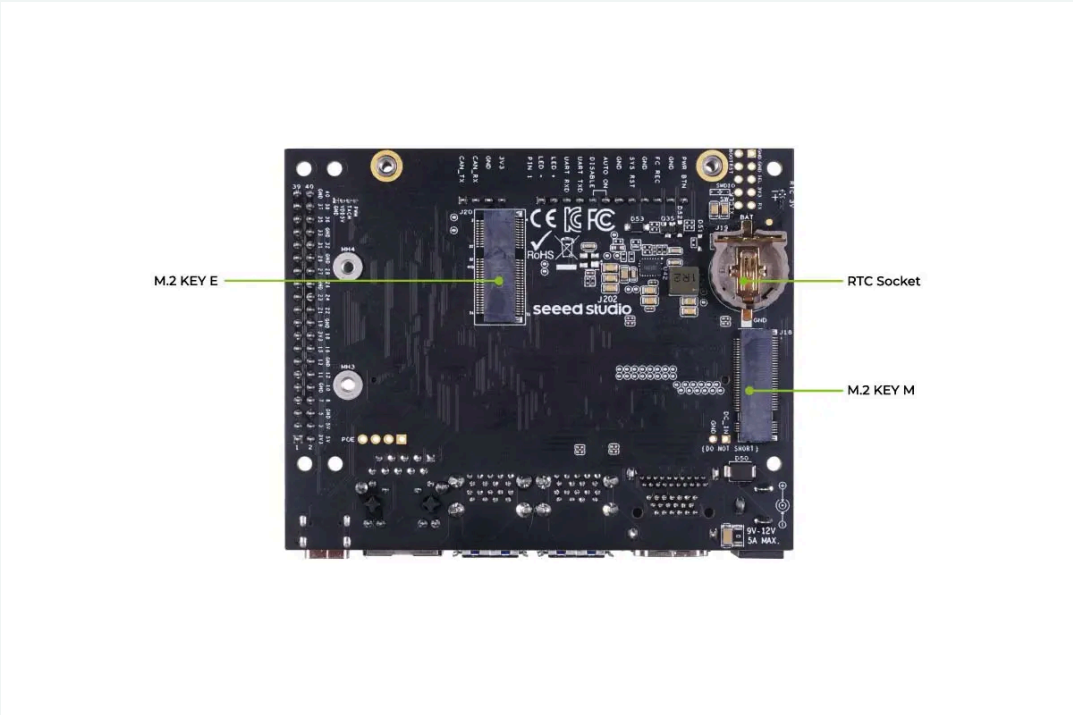
## Specification

| |
|---|
| Jetson Xavier NX System on Module |

| | | |
|---|---|---|
| AI Performance | reComputer J2022 - Jetson Xavier NX 16GB, 21 TOPS | reComputer J2021 - Jetson Xavier NX 8GB, 21 TOPS |
| 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 | 16GB 128-bit LPDDR4x 59.7GB/s | 8GB 128-bit LPDDR4x 59.7GB/s |
| Storage | 16 GB eMMC 5.1 | |
| Video Encoder | 2x 4K60 (H.265) \| 4x 4K30 (H.265) \| 10x 1080p60 (H.265) \| 22x 1080p30 (H.265) | |
| Video Decoder | 2x 8K30 (H.265) \| 6x 4K60 (H.265) \| 12x 4K30 (H.265) \| 22x 1080p60 (H.265) \| 44x 1080p30 (H.265) | |
| Carrier Board | | |
| Storage | | 1x M.2 Key M PCIe |
| Networking | Ethernet | 1x RJ-45 Gigabit Ethernet (10/100/1000M) |
| | M.2 KEY E | 1x M.2 Key E |
| I/O | USB | 4x USB 3.1 Type-A, 1x USBType-C (Device Mode) |
| | Camera | 2x CSI (2-lane 15pin) |
| | Display | 1x HDMI 2.1 |
| | Fan | 1x 4 pin Fan Connector (5V PWM) |
| | CAN | 1x CAN |
| | Multifunctional Port | 1x 40-Pin Expansion header<br>1x 12-Pin Control and UART header |
| | RTC | 1x 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 | | 0℃~60℃ |

# Hardware Overview




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# Applications

- **AI Video Analytics**
- **Machine Vision**
- **Autonomous Mobile Robot (AMR)**
- **Build Multi-streams AI Video Analytics:** For building video analytics, Jetson Xavier 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.) Check out our video analytics main page to find more vision AI developing tools and practical use case deployed in the field!

## 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-w-o-power-adapter-p-5607.html
- reComputer J202X (w/o power adapter) Datasheet
- NVIDIA Jetson Devices and Carrier Boards Comparisons
- Seeed NVIDIA Jetson Hardware Catalog

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