reComputer [J401](#) carrier board for NVIDIA® Jetson Orin™ Nano/Orin™ NX Module

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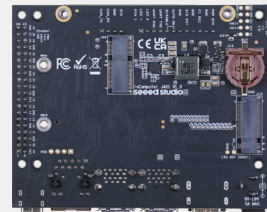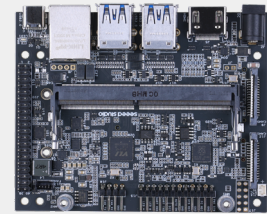
NVIDIA | Elite Partner

reComputer J401 is a high-performance, interface rich NVIDIA Jetson Orin NX/Nano compatible carrier board, which has the same functional design and size as the carrier board of NVIDIA® Jetson Xavier NX Developer Kit. Offering versatile conectivity, flexible storage and wireless capability expansion, even for more peripherals, it can be your perfect choice to develop industrial automation systems to build powerful AI applications.

Hardware Feature

The reComputer J401 carrier board is open-source design with rich sets of IOs, featuring networking capability that equipped with a Gigabit Ethernet port for fast networking, also coming with 4 USB 3.2 Type-A (10Gbps) ports, 1 USB2.0 Type-C port and 1 CAN connector for versatile connectivity options. This extension board has been mounted with 1 M.2 Key M 2280 and 1 M.2 Key E slots for ample space for flexible storage and wireless connectivity expansion. In addition, there are multiple peripherals supported on the board, such as enabling users to capture and display high-quality video content with 2 15-pin CSI camera connectors and the HDMI 2.1 port. There also includes a FAN connector for cooling purposes, and 1 RTC socket with for reliable timekeeping.

Software Compatibility

With the NVIDIA Jetson module assembled, it could support NVIDIA JetPack, which includes a board support package (BSP), Linux OS, NVIDIA CUDA®, cuDNN, and TensorRT™ software libraries for deep learning, computer vision, GPU computing, multimedia processing, and much more. With its multiple camera connectors, it is suitable for running multiple neural networks in parallel for applications like image classification, object detection, segmentation, and speech processing.

reComputer Content

reComputer J401 carrier board x1
12V/5A power adapter x1

Supporting Full System

reComputer J3010 Jetson Orin Nano 4GB

20 TOPS

reComputer J3011 Jetson Orin Nano 8GB

40 TOPS

reComputer J4011 Jetson Orin NX 8GB

70 TOPS

reComputer J4012 Jetson Orin NX 16GB

100 TOPS

reComputer J401 carrier board for NVIDIA Jetson Orin™ NX/Orin™ Nano

Specifications	reComputer J401 carrier board
Jetson Module Supported	Jetson Orin™ Nano/ Orin™ NX
SKU	102110769
Display	1* HDMI 2.1
CSI Camera	2* CSI (2-lane 15pin)
Ethernet	1* Gigabit Ethernet (10/100/1000M)
USB	4* USB 3.2 Type-A (10Gbps) 1* USB 2.0 Type-C (Device Mode)
M.2 KEY M	1* M.2 KEY M 2280(support NVMe SSD)
M.2 KEY E	1* M.2 KEY E(support WiFi/Bluetooth)
FAN	1* 4 pin Fan Connector(5V PWM)
CAN	1* CAN
Multifunctional port	1* 40-Pin Expansion header 1* 12-Pin Control and UART header
RTC	1*RTC 2-pin, 1*RTC socket
Power	9-19V
Power supply	DC 12V/5A(Barrel Jack 5.5/2.5mm)
Temperature	-10℃ ~60℃
Size	100mm*80mm

Ready to Get Started?

As an NVIDIA NPN Elite partner, Seeed offers one-stop experience to simplify edge AI deployment including custom image flashing service, fleet management, and hardware customization.

- Check out our Latest NVIDIA Jetson Catalog
- Explore more about Seeed's NVIDIA Jetson ecosystem at seeedstudio.com/tag/nvidia.html
- Take the first step to send us an email at edgeai@seeed.cc to become a part of the amazing ecosystem!