

seed studio

INDUSTRIAL PRODUCT DATASHEET

reComputer Super J401 Carrier Board for Jetson Orin™ Nano/NX

The reComputer Super J401 is a compact, high-performance edge AI carrier board designed for development and prototyping.

SKU

100090211

UPDATED

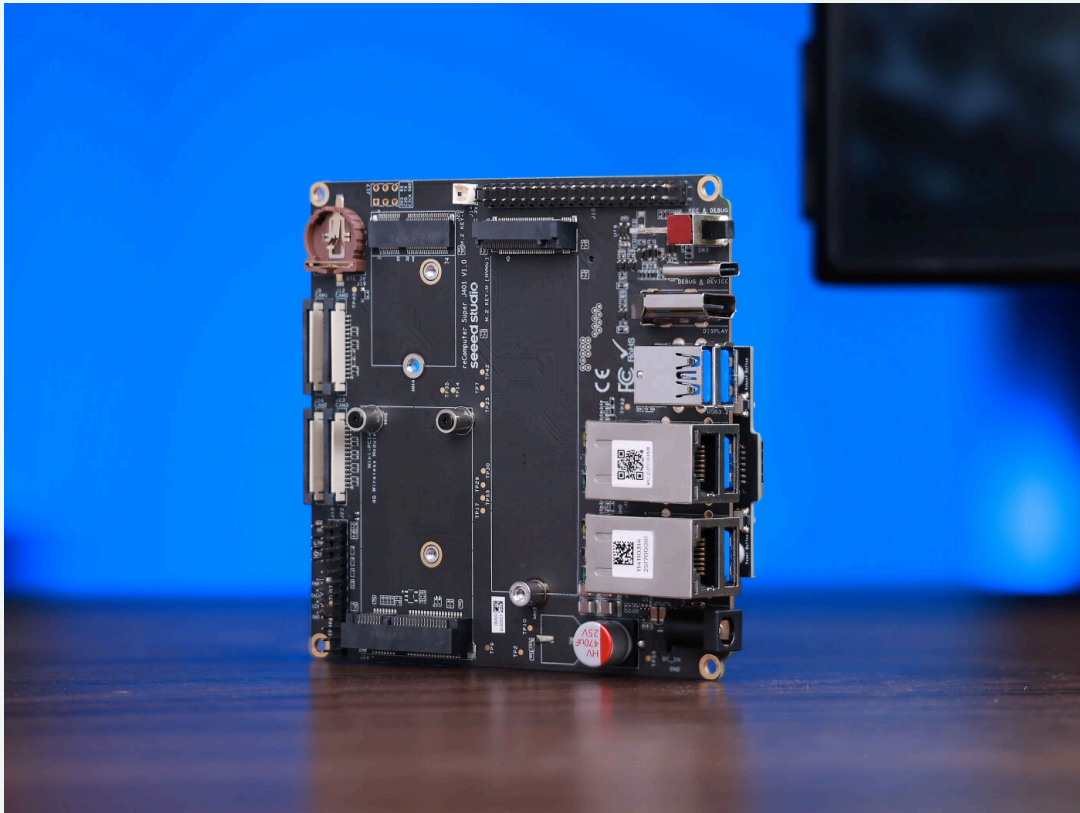
2026-04-15 10:10:14

PRICE

\$159.00(Excl. VAT)



Overview



The reComputer Super J401 is a compact, high-performance edge AI carrier board designed for development and prototyping. Compatible with NVIDIA Jetson Orin Nano/Orin NX modules in Super/MAXN mode, it delivers up to 157 TOPS of AI performance. It supports a wide range of operating temperature from -20°C to 65°C. Built for fast development and production, it features Wi-Fi/BT/LTE wireless communication capability and Ethernet, ensuring seamless integration, ideal for video analysis, multimodal perception, and robotics.

Key Features

01 Super Boost AI Performance

Supports Orin Nano and Orin NX module, delivering up to 157 TOPS, ideal for demanding applications like vision AI, robotics, and generative AI.

02 Energy-Efficient Operation

Configurable power modes from 10W to 40W allow for optimized performance and energy consumption.

03 Robust Thermal Design

Operates reliably in temperatures from -20°C to 60°C at 40W, and up to 65°C at 25W.

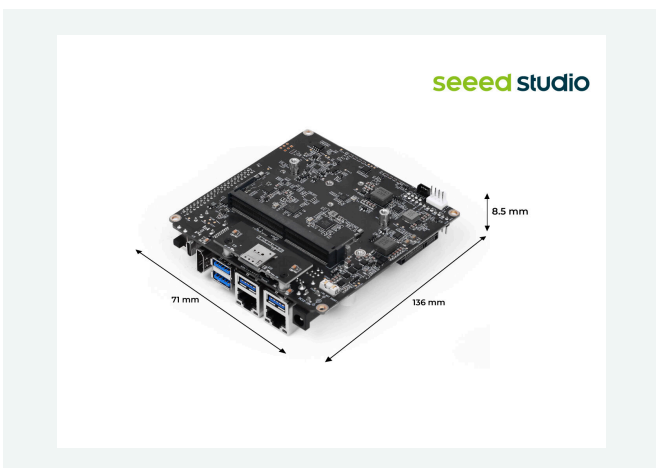
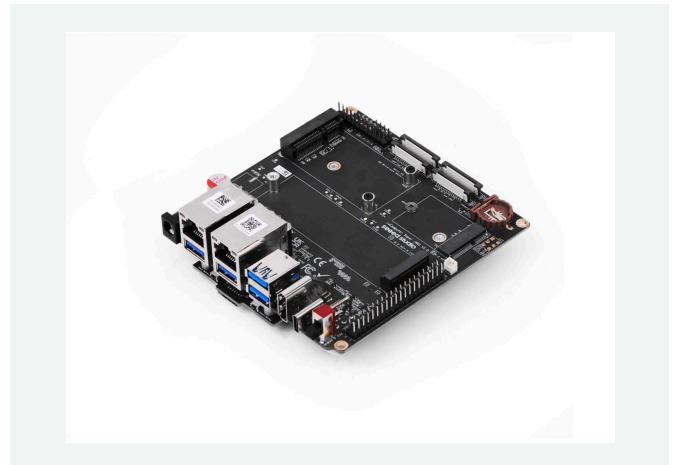
04 Rich interfaces

Features 2xRJ45, SIM card, 4×USB 3.2, HDMI 2.1, and CAN. Also including M.2 Key E/M, Mini-PCIe, 4xCSI for connectivity and cameras.

05 Ready for Deployment

Supports AI frameworks like NVIDIA Isaac, Hugging Face, and ROS2/1, enabling rapid development of various AI applications.

Product Gallery

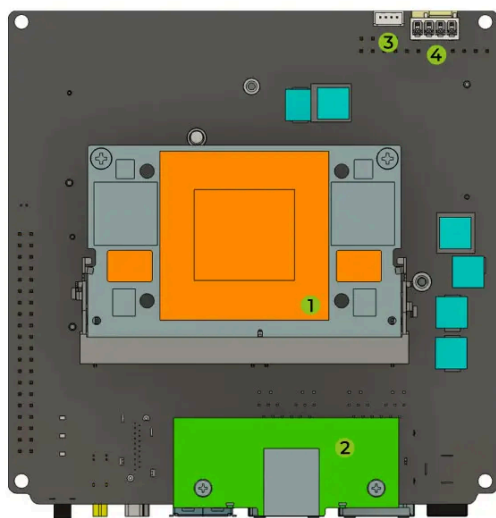


Specification

Carrier Board		
Storage	1x M.2 KEY M PCIe for SSD	
Networking	M.2 KEY E	1x M.2 Key E for WiFi/Bluetooth module
Mini PCIe	1x mini-PCIe for LTE 4G module	
Ethernet	2x RJ45 Gigabit Ethernet	
I/O	USB	4x USB 3.2 Type-A (5Gbps); 1x USB 2.0 Type-C (Device Mode/Debug);
	Camera	4x mipi CSI(2-lane 15-Pin)
	CAN	1 x CAN(4-Pin Header)
	Display	1x HDMI 2.1
	Fan	1x 4-Pin 1.25mm Fan Connector (5V PWM) 1x 4-Pin 2.54mm Fan Connector (12V PWM)
Extension Port	1x 40-Pin extension header 1x 12-Pin control and UART header	
RTC	1x RTC 2-pin 1x RTC Socket	
LED	2x LED(PWR and ACT)	
Button	1x PWR 1x RESET	
Switch	1x REC	
Power	12-19V 5525 Barrel DC Jack	
Mechanical	Dimensions (W x D x H)	71mm x 136mm x 8.5mm
	Weight	155.8g
	Installation	Desk(Copper column include)
Operating Temperature	-20°C~65°C(25W Mode)-20°C~60°C(MAXN Mode)	
Warranty	2 Years	
Certification	RoHS,REACH,CE,FCC,KC	

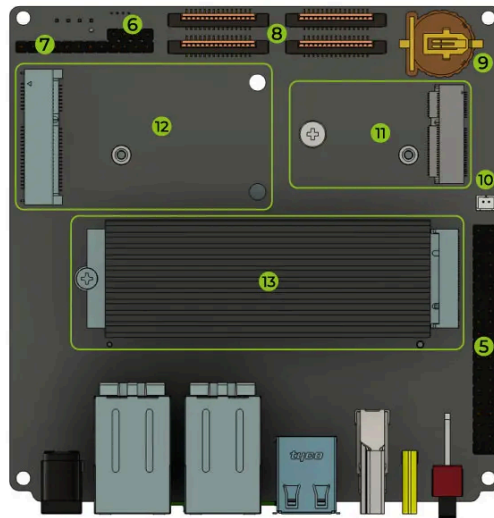
Hardware Overview

Top View



- ① Nvidia Jetson Orin Module
- ② Extension Board
- ③ 4-Pin Fan Connector (5V PWM)
- ④ 4-Pin Fan Connector (12V PWM)

Bottom View



- 5 40-Pin Extension Header
- 6 CAN Header
- 7 12-Pin control and UART header
- 8 4x 15-Pin MIPI CSI
- 9 RTC Battery Socket(CR1220)
- 10 RTC 2-Pin Header(3V)
- 11 M.2 Key E Slot
- 12 Mini PCIe Slot
- 13 M.2 Key M Slot(with SSD)

Applications

- **Accelerate AI Application and Deployment:** The software stack provides an end-to-end development workflow, and CUDA-X accelerated libraries and other NVIDIA technologies.
- **Edge AI Computer Vision Applications:** Jetson Platform Services provide a platform to simplify development, deployment and management of Edge AI applications on NVIDIA Jetson like BEV sensing demo with 4 USB cameras.
- **Demanding AI Applications:** Such as AMR, smart retail, industrial automation, and video surveillance, smart video analysis scenario

Part List

Seeed Carrier Board (reComputer Super J401)	x1
SIMBoard	x1
M3Stud	x5
M3Screw	x5

Compliance & Logistics

HSCODE	8473309000
USHSCODE	8473309100
EUHSCODE	8471707000
COO	CHINA

Logistics	Value
ECCN	EAR99
HSCODE	8473309000
USHSCODE	8473309100
EUHSCODE	8471707000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/reComputer-Super-J401-Carrier-Board-p-6642.html>
- [User Manual&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](#)
- [Flash BSP for Jetson](#)

Seeed Technology Co.,Ltd.

9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676

Web: www.seeed.cc

Shop: www.seeedstudio.com