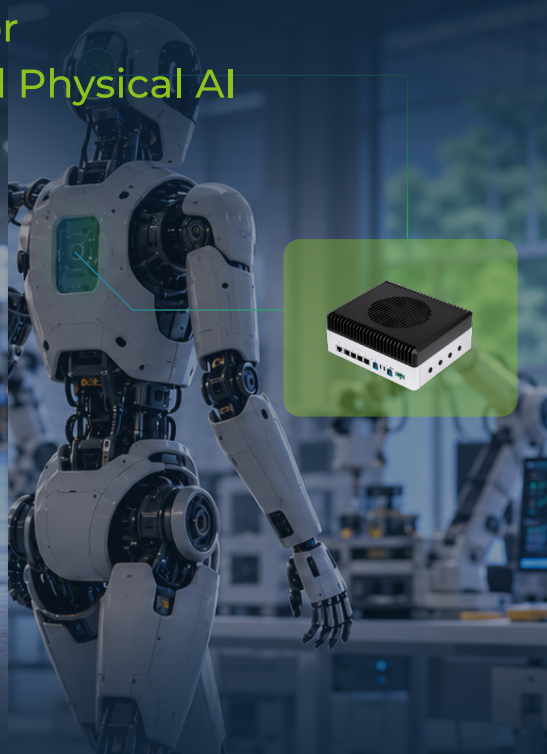


reComputer Jetson AGX Orin Series

Edge Computing Brain for
Next-Generation Robot Systems and Physical AI



reComputer Classic J501 Series

Out-of-the-box Edge AI
Computer

Batch Deployment

Volume deployment replacement option of NVIDIA® Jetson AGX Orin™ 64G Developer Kit.

Out-of-the-Box Experience

Support Jetpack 7.2, and run AI applications with “one-click” command to accelerate your development on Jetson.

Features

Bulk quantity developer kit for developers, education and research.



reComputer Mini J501 Series

Ultra-compact brain for
Embodied AI

Compact Industrial Solution

110 x 110 mm compact footprint optimized space-constrained Embodied AI applications

Application Scenarios

Dual Ethernet ports for AI NAS, 8x GMSL2 cameras for real-time video analytics, and CAN, RS-485, and I2S for robotics

Features

Carrier boards available. **Open-source** schematics and 3D files allow custom thermal and structural design to fit end-user devices.



reComputer Robotics J501 Series

Robot Brain for Multimodal
Perception Fusion

Rich Sensor Interfaces

2x RS232/422/485, 4x CAN-FD, and 4x DI/DO for direct connection to sensors and actuators in robot systems.

Multimodal Network Connectivity

Equipped with 4x GbE and 1x 10GbE ports, supporting Wi-Fi / BT / 5G / GPS hybrid communications to provide comprehensive connectivity.

High-Bandwidth Data Transmission

Features dual M.2 storage slots and supports up to 8x GMSL2 cameras, enabling multi-sensor fusion perception and interaction, such as depth vision.

Features

Wide operating temperatures (-10°C to 60°C) and wide voltage input (19V~48V) — specifically engineered for complex robot system.



Specifications

Product	reComputer Classic J501		reComputer Mini J501		reComputer Robotics J501	
Jetson Module	AGX Orin 32GB (Super Mode)	AGX Orin 64GB	AGX Orin 32GB (Super Mode)	AGX Orin 64GB	AGX Orin 32GB (Super Mode)	AGX Orin 64GB
AI Performance	241 TOPS	275 TOPS	241 TOPS	275 TOPS	241 TOPS	275 TOPS
Storage	64GB eMMC 5.1; M.2 Key M (128G SSD included)		64GB eMMC 5.1; M.2 Key M (128G SSD included)		64GB eMMC 5.1; 2x M.2 Key M (128G SSD included)	
PCIe	PCIe x16 slot (8x PCIe Gen4)		-		-	
USB	4x USB 3.1 Type-A 2x USB 3.0 Type-C 1x USB 2.0 Micro-B		2x USB 3.2 Type-A 1x USB 3.0 Type-C 1x USB 2.0 Type-C		3x USB 3.1 Type-A 1x USB 3.0 Type-C 1x USB 2.0 Type-C	
Network	1x 10GbE RJ45; M.2 Key E (Pre-install module)		1x 10GbE RJ45, 1x 1GbE RJ45; M.2 Key E		1x 10GbE RJ45, 4x 1GbE RJ45; M.2 Key E, M.2 Key B	
Display	1x DP (+MST)		1x HDMI		1x HDMI	
I/O	40-pin header (I2C, GPIO, SPI, CAN, I2S, UART, DMIC); 12-pin automation header; 10-pin audio panel header; 10-pin JTAG header		2x CAN, 1x RS485, 1x I2S, 4x GPI, 4x GPO		20-pin header (1x SPI, 1x I2C, 1x I2S); 4x CAN, 4x DI, 4x DO; 2x RS232/422/485	
Camera	16 lane MIPI CSI-2 connector (Support for third-party camera expansion)		8x GMSL2		8x GMSL2	
Power	9-20V DC (Power Jack 5525 / USB-C PD)		19-48V DC (XT30)		19-48V DC (Terminal Block)	
Dimension	110 x 110 x 73mm		119 x 119 x 100mm		210 x 180 x 87mm	
Temperature	0°C ~ 40°C		-10°C ~ 60°C		-10°C ~ 60°C	

Developer friendly — Compatible with all reComputer series

JetPack 7.2 Resource Hub

Build, migrate, optimize, and deploy on NVIDIA Jetson Orin + Jetson Thor

Jetson Linux 39.2
 Ubuntu 24.04
 CUDA 13

Jetpack 7.2 Resource Hub

Discover what's new in JetPack 7.2: Memory optimization, Agentic AI Skills, Super Mode, Flash & OTA, Yocto BSP, and more.

Beginners Course

From Beginner to Master: Explore the Jetson Orin software stack, CV, video analytics, robotics, and Generative AI while gaining deep mastery of CUDA, JetPack SDK, TensorRT, and DeepStream.

reComputer AI Lab

Deploy CV, LLM, and VLM models rapidly with "one-click." The platform also features toolchains, tutorials, Jetson Examples, and community project showcases.

Flash

Remote Dev
Devices
App Market
Skills
OTA Update
Community

Jetson Develop Tool

Client tools features: Remote dev, JetPack 7.2 upgrades, firmware flashing, OTA updates, first-boot setup, agent skill-based application deployment, and device diagnostics.

