seeed studio

INDUSTRIAL PRODUCT DATASHEET

reBot Arm B601-RS Assembled Kit with Jetson Orin

Combining NVIDIA Jetson Orin AI computing, fully open hardware and software, ±0.1 mm repeatability, and a 2.5 kg rated payload, the reBot Arm B601-RS delivers everything needed to build, train, and deploy next-generation Physical AI...

SKU	UPDATED	PRICE
E26062403	2026-11-18 10:52:50	$0.00(Excl. VAT)



Overview



Combining NVIDIA Jetson Orin AI computing, fully open hardware and software, ±0.1 mm repeatability, and a 2.5 kg rated payload, the reBot Arm B601-RS delivers everything needed to build, train, and deploy next-generation Physical AI applications.

Key Features

01 **Built for Physical AI — Affordable 6+1-DoF robotic arm for sim-to-real learning.**

02 **Completely Open — Hardware, software, CAD, SDK, BOM, and algorithms included.**

03 **Learn Faster — Comprehensive tutorials from assembly to deployment.**

04 **Always Improving — Free algorithm updates, demos, and learning resources.**

05 **Precision Motion — ±0.1 mm repeatability powered by RobStride Dynamics motors.**

06 **Robotics Ecosystem —**

Compatible with ROS, NVIDIA Isaac Sim, LeRobot, Pinocchio.

07 **More Robotics for Less — Professional capabilities at an accessible price.**

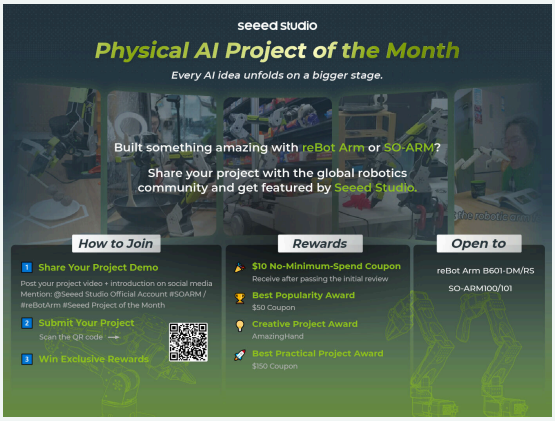
Product Gallery

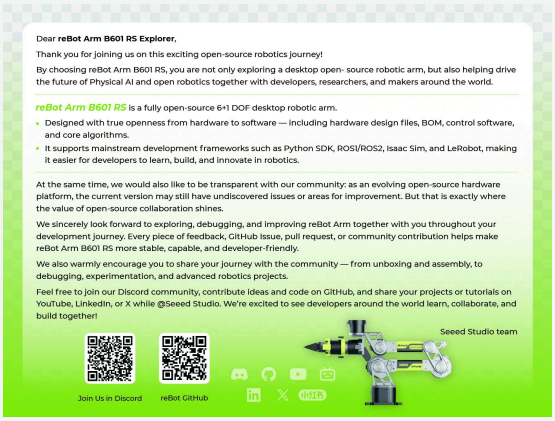












Hardware Overview

Application / Devices	Sim-to-Real VLA DLI Course	GraspNet	Voice-control
reBot B601-DM (plus power supply)		✓	✓
reBot B601-RS (plus power supply)	✓		
star 102 Arm (plus power supply)	✓		
NVIDIA Jetson AGX Thor Developer Kit	✓		✓
NVIDIA Jetson Orin Super Developer Kit		✓	
2D Camera (Could use any ET-S231 USB camera from vision accessories list)	✓		
3D Camera (Could use any Orbbec/Realsense camera from vision accessories list)		✓	✓
reSpeaker			✓

Applications

- **Learn & Build Robotics Easily:** Lower the barrier to robotics with step-by-step tutorials. The reBot Arm B601-RS helps you go from assembly to intelligent robot control quickly and confidently.
- **Research & Laboratory Automation:** High-precision robotics for liquid handling, sample transfer, and laboratory workflows. Built for repeatability, delicacy, and rapid experimentation.
- **Teleoperation & Physical AI:** Power real-time control, data collection, and sim-to-real learning with leading robotics frameworks including LeRobot and Isaac Sim. A dexterous “hand” for embodied AI.
- **Industrial Automation & Logistics:** ±0.1 mm precision, up to 5 kg payload. The reBot Arm B601-RS enables precision assembly, inspection, sorting, and material handling in manufacturing and warehouse environments. Compact and easy to integrate into existing production lines and workcells.
- **Your Physical AI Project Deserves the Spotlight!:** Seeed Studio's monthly "Physical AI Project of the Month" is now open for submissions—whether you're building with the reBot Arm (B601-DM/RS) or the SO-ARM (100/101), this is your chance to showcase your work to the global robotics community and get featured by Seeed Studio!
- **Join our Discord community for discussions and support:**
- **https://discord.gg/wsfpnbm3cU**

Resource Links

- https://www.seeedstudio.com/reBot-Arm-B601-RS-Bundle-with-Jetson-Orin-p-6895.html
- reBot Arm Github
- Tool
- reComputer J3011 Datasheet
- reComputer J3011 schematic
- reComputer J3011 3D File

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