seeed studio

INDUSTRIAL PRODUCT DATASHEET

SO-101 3D Printed Parts - LeRobot Open Source 6-DOF arm

Includes all 3D-printed structural parts for the SO-101 robotic arm.

SKU	UPDATED	PRICE
114993668	2026-11-11 06:39:24	$29.90(Excl. VAT)



Overview



Includes all 3D-printed structural parts for the SO-101 robotic arm. Designed for LeRobot, this kit is backed by comprehensive open-source resources, making it easy to assemble, learn, and start building Physical AI and robotics projects.

Key Features

01 **6 Degree-of- Freedom(DOF) Arm — Six STS3215 magnetic-encoder bus servos deliver 30 kg·cm torque per joint with 12-bit absolute position feedback for smooth, quiet, and repeatable motion**

02 **Hugging Face LeRobot Native Support — Works out of the box with the LeRobot framework for imitation learning; collect teleoperation data and train ACT/Diffusion models with community-shared pipelines.**

03 **Affordable & Flexible Kit Options — Low-cost 3D-printable robotic arm with flexible kit options. Select full-assembly, servo-only pack or unassembled parts to match your budget and project needs.**

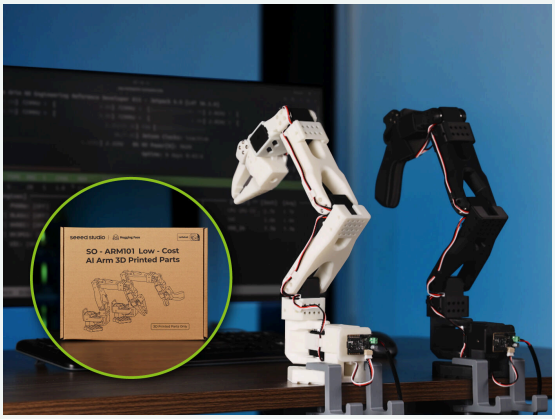
04 **Fully Open-Source — All hardware designs, BOM, firmware, and software are publicly available; modify, extend, and share freely**

Product Gallery



Package Option	Pre-assembled	Servo Motors	Servo Control Board	3D-Printed Body Parts	Wrist Camera Bracket	USB Camera	Teleoperation	Imitation Learning
 Servo Motor Kit	-	✓	✓	-	-	-	✓	-
 Unassembled Bundle	-	✓	✓	✓	✓	-	✓	-
 Assembled Arm	✓	✓	✓	✓	✓	✓	✓	✓

Note: Servo Motor Kit + 3D Printed Parts = Unassembled Bundle





Hardware Overview



Applications

- **Leader-Follower Teleoperation:** Collect robot demonstration data easily via leader-follower teleoperation, ready for imitation-learning model training.
- **Imitation Learning & Reinforcement Learning:** Teach your robot household-style skills like folding clothes with human demos. Gather data via leader-follower teleoperation, train imitation-learning policies on LeRobot, and watch your robot reproduce tricky real-world manipulation tasks.
- **SO-101 works seamlessly with LeRobot for data collection, simulation, training, and deployment. Train and deploy custom grasp-and-place policies quickly on NVIDIA Jetson edge devices.**
- **Explore the tutorial: LeRobot on NVIDIA Jetson AI Lab**
- **Community Inspiration:** Follow Nikodem Bartnik's hands-on SO-101 workflow: hardware assembly, servo control, custom policy training and real-time block-picking inference. Walk through key steps, fix typical issues and explore the open-source arm's potential.
- **Our monthly project call is now open! Share your project demos for a chance to win prizes and discount coupons.**
- **Quick Start Developer Resources**
- **Jumpstart your project with official tutorials, open-source repositories, and community support:**
- **Start building your first Physical AI Project in 30 mins with SenseCraft**
- **Step-by-Step Guide: SO-ARM 101 Quick Start:** Open-Source Code: Access PyTorch models, simulation tools, and datasets on the Hugging Face LeRobot GitHub Repository
- **Community & Support: Join discussions, share models, and get real-time help on the Seeed Discord Channel & FaceBook. Join our Facebook Group to claim exclusive coupons worth up to $100 USD.**

Resource Links

- https://www.seeedstudio.com/SO-101-3D-printed-Enclosure-p-6428.html
- STS3215 Servo Motor Datasheet
- Finedtune 3D printed parts files
- Original SO-ARM101 3D printed parts
- Servo Adaptor Board for Seeed Studio XIAO Datasheet
- reComputer J301x Datasheet
- reComputer J401X Datasheet
- reComputer_mini_datasheet_V1.0

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