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INDUSTRIAL PRODUCT DATASHEET

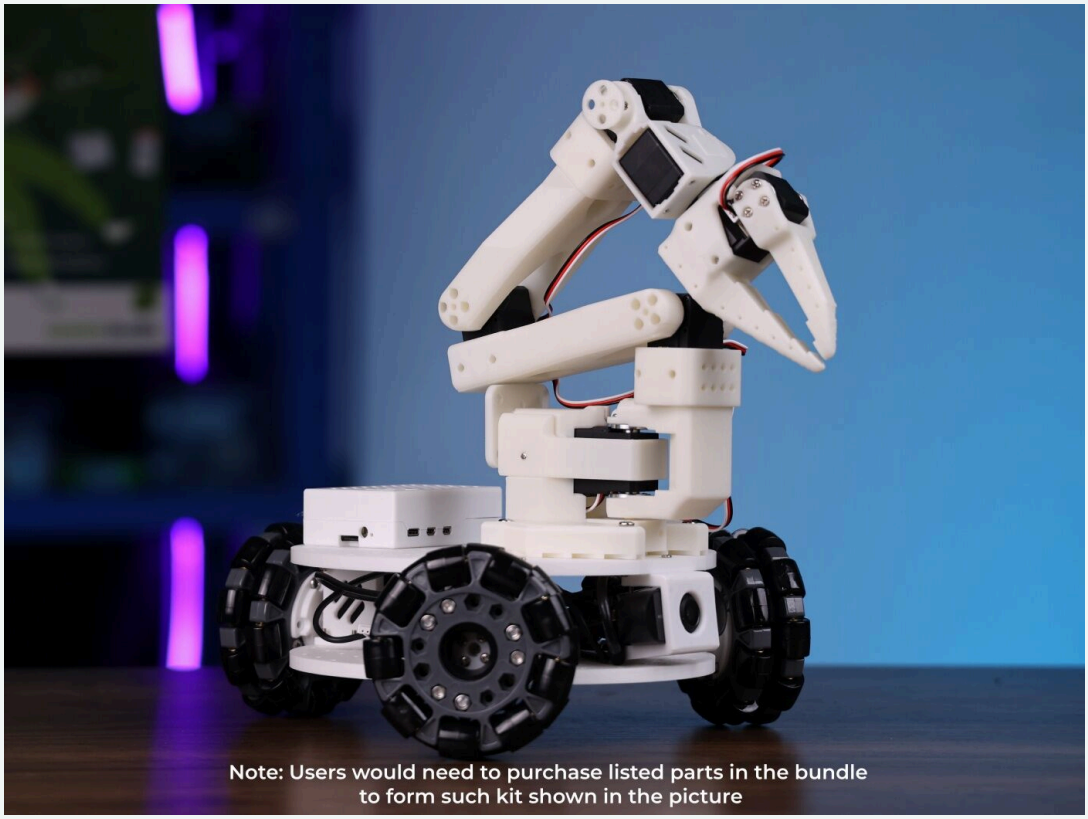
LeKiwi Full Kit (12V Version)

The LeKiwi Full Kit (12V Version) is an open, modular robotic platform with omnidirectional drive and high-torque servos, designed for educational and research applications with remote control and data recording capabilities.

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Overview



The LeKiwi Full Kit (12V Version) combines omnidirectional drive for agile navigation with Feetech STS3215 servos (30kg torque/joint) for robust grasping, all within an open modular design compatible with Raspberry Pi/NVIDIA Jetson and the LeRobot framework. It supports game controller, keyboard, and leader arm control, as well as joint angle and camera recording, enabling hands-on robotics education and research.

Key Features

- Mobility & Dexterity:

Omnidirectional drive for agile navigation in tight spaces.

Feetech STS3215 servos (30kg torque/joint) for robust grasping and teleoperation.

- Open & Modular:

Free hardware designs + code for customization (sensors, grippers, etc.).

Raspberry Pi/NVIDIA Jetson + LeRobot framework for remote control and flexible development.

- Educational & Research-Ready:

Teaches robotics basics (kinematics, AI) via hands-on projects.

Records interaction data for machine learning model training.

Product Gallery









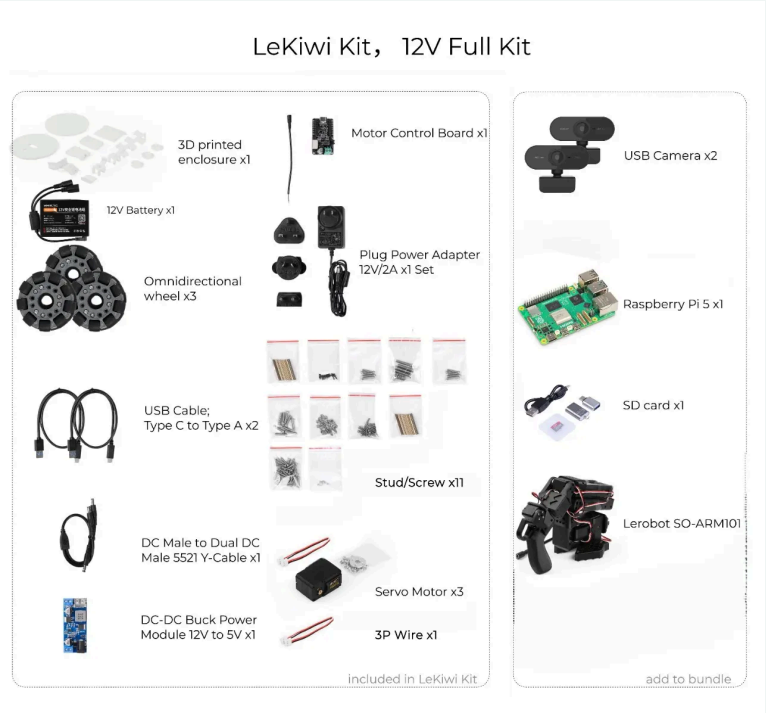


Specification

Power Supply	12V Battery
Supported Controller	Raspberry Pi 5/ NVIDIA Jetson
Operating Temperature Range	0℃~40℃

Weight	1.7 kg
Dimension	300mm *300mm *230mm
Communication Protocol	UART
Servo Motor	
Model	STS3215
Rated Input Voltage	12V
Rated Torgue	10KG.cm
Rated Current	900mA
Horn Type	25T/OD5.9mm
Gear Ratio	1/345

Hardware Overview



Applications

- **Game controller input**
- **Keyboard control (WASD for base movement)**
- **Leader arm control (using a second SO-ARM101/100 as an input device)**
- **Joint angle recording**
- **Camera feed capture**
- **Task demonstration recording**
- **More intensive processing**
- **Visualization**
- **System monitoring**

Part List

Lekiwi 3D printed enclosure	x1
12V 4500mAh Lithium Battery	x1
100mm Omnidirectional wheel	x3
Feetech STS3215 30KG Serial Servo	x3
Feetech Servo Cable	x4
DC-DC Buck Power Module - 12V to 5V	x1
DC Male to Dual DC Male 5521 Y-Cable	x1
USB Cable;Type C to Type A	x2
Plug Power Adapter;Black-12V-2A AC/DC	x1
Motor Control Board	x1
Stud(M2*6)	x2
Screw(M2*4)	x4
Screw(M3*16)	x32
Screw(M4*18)	x9
Screw(M2*6)	x12
Nut(M3*2.5)	x35
Screw(M3*18)	x6
Screw(M3*10)	x15
Stud(M3*45)	x6
Screw(M5*25)	x4
Nut(M5*3.5)	x4

Resource Links

- https://www.seeedstudio.com/LeKiwi-Full-Kit-12V-Verision.html

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