seeed studio

INDUSTRIAL PRODUCT DATASHEET

Amazing Hand (Left Hand): The Open-Source Robotic Hand Developer Kit

Amazing Hand is a 3D-printed, open-source humanoid hand with 8 degrees of freedom and four fingers.

SKU	UPDATED	PRICE
100062181	2026-05-08 02:50:27	$99.00(Excl. VAT)

Overview

Amazing Hand is a 3D-printed, open-source humanoid hand with 8 degrees of freedom and four fingers. Fully actuated internally, lightweight (400 g), and low-cost, it features flexible shells for natural movement. Perfect for research, education, and robotics, it combines dexterity, simplicity, and accessibility in one compact design.

Key Features

01 **Open-Source Design The Amazing Hand is fully open-source, with all code and mechanical designs freely available. This allows easy customization and adaptation for a wide range of robotics projects.**

02 **8 Degrees of Freedom (DOF) It features eight degrees of freedom across four fingers, each with two articulated phalanxes. This enables versatile and natural hand movements.**

03 **Compact and Lightweigh All actuators are housed inside the hand, eliminating external cables. At only 400 g, it is lightweight and easy to integrate into various applications.**

04 **3D-Printable and Cost-EffectiveThe hand is fully 3D-printable and includes all modular components, makes it an affordable option for students, hobbyists, and researchers.**

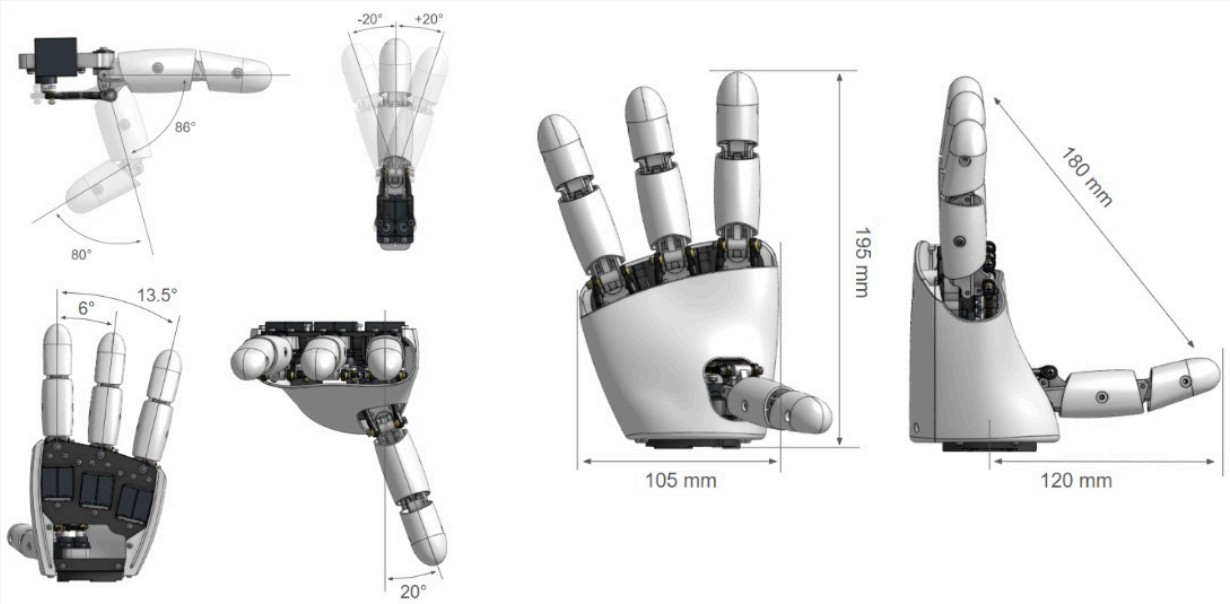
05 **Ideal for Research and Education Its open-source and accessible design makes it perfect for AI experiments and robotics learning. It is also suitable for data collection and algorithm validation.**

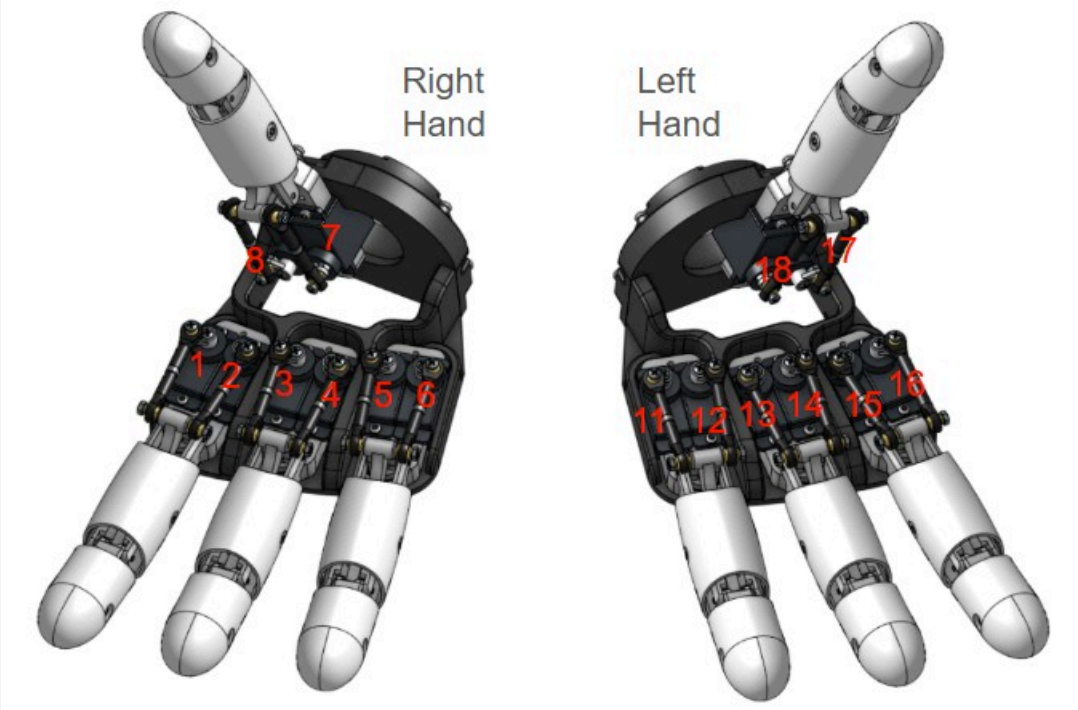
Product Gallery

Specification

Module	Amazing Hand
Supported Controller	Raspberry Pi / NVIDIA Jetson /MCU
Operating Temperature Range	0℃～40℃
Weight	400g（withoutServo）
Construction	Fully 3D printable with rigid "bones" and flexible TPU shells
Actuation	Parallel mechanism with 2x Feetech SCS0009 servos per finger
Motion	Flexion/Extension & Abduction/Adduction via differential motor movement
Feetech SCS0009 Communication Protocol	UART
Feetech SCS0009 Rated Input Voltage	5V
Feetech SCS0009ServoRated Torgue	1.89KG.cm
Feetech SCS0009 Rated Current	300mA

Hardware Overview





Applications

- **Strain Gauge Glove Control:** Wear a custom glove for real-time, immersive, one-to-one control of the robotic hand.
- **Hand Posture Estimation Control:** Use a standard camera to capture your hand's posture and directly map its movements to the robotic hand without any wearable devices.
- **Joint Angle Recording:** Log precise angle data from each servo in real-time.
- **Visual Data Capture:** Synchronize and capture video feeds from a camera during operation.
- **Task Demonstration Recording:** Record complete task demonstrations for training AI models, such as in imitation learning.
- **Sensor Streaming:** Stream servo data (e.g., position, load, temperature) to a host computer for more intensive processing, data visualization, and system monitoring.

Part List

Category	Item Name / Description	Specification / Note	Qty
Electronics	PCBA Servo Driver Board	Compatible with Seeed Studio XIAO	1
Feetech Servo	Model: SCS0009	8	
Power Supply	DC Power Adapter	12V 3A (5.5*2.5mm)	1
DC Power Pigtail Cable	Female to Stripped Wire	1	
Data Breakout	3-Pin Header Breakout Board	SCS-Y4-2012	8
3-Pin Cables	150mm	8	
Structure	Amazing Hand Full Structural Kit	Includes fingers, palm, wrist shells & frames (Black/ABS)	1 Set
Decorative Stickers	Includes Logo & Model ID	1 Sheet	
Linkage	Ball Linkage Rods	M2*L19mm Black	16
Stainless Steel Pins	D2*L10mm / D2*L16mm, etc.	1 Set	
Fasteners	Assembly Screw Pack	M2, M2.5 various sizes (spares included)	1 Pack
Lock Nuts / Washers	M2-M4 sizes	1 Pack	
Tools / Acc.	Phillips Screwdriver	Red Handle	1

Compliance & Logistics

HSCODE	9023009000
USHSCODE	9023000000
EUHSCODE	9023001000
COO	CHINA

Logistics	Value
ECCN	EAR99
HSCODE	9023009000
USHSCODE	9023000000
EUHSCODE	9023001000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Amazing-Hand-Open-Source-3D-Printable-Robotic-Hand-Kit.html
- SCS0009ServoMotorDatasheet
- ServoAdapyorBoardforSeeedStudioXIAODatasheet
- 3DPrintedPartsFiles
- NVIDIA® Jetson Orin™ Nano Super Developer Kit

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