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INDUSTRIAL PRODUCT DATASHEET

Reachy Mini Wireless - 9-DoF Open Source Desktop Humanoid Robot with Raspberry Pi 4, Powered by Hugging Face & Pollen Robotics

Reachy Mini is an expressive, open-source robot designed for human-robot interaction, creative coding, and AI experimentation.

SKU	UPDATED	PRICE
100090917	2026-11-11 09:30:34	$499.00(Excl. VAT)



Overview



Reachy Mini is an expressive, open-source robot designed for human-robot interaction, creative coding, and AI experimentation. Fully programmable in Python, it's your gateway into embodied AI. Fun, hackable, and ready to be part of your next project. Whether you're a developer, educator, or robot enthusiast, Reachy Mini lets you prototype and deploy real-world applications from your desk

Key Features

01 **Open-Source & Community Driven**

Gain complete access to hardware designs, software SDKs, and simulation environments, allowing you to customize, improve, and share your own robotic behaviors within the global Hugging Face ecosystem.

02 **Highly Expressive Interaction**

Features a motorized head with 6 Degrees of Freedom (DoF), full-body rotation, and signature animated antennas that twitch and move to convey personality and emotion during human-robot engagement.

03 **Multimodal AI Sensing**

Equipped with a wide-angle camera, a 4-microphone array, and a 5W speaker, Reachy Mini can "see," "hear," and "speak," making it the ideal hardware for testing real-world vision and speech models.

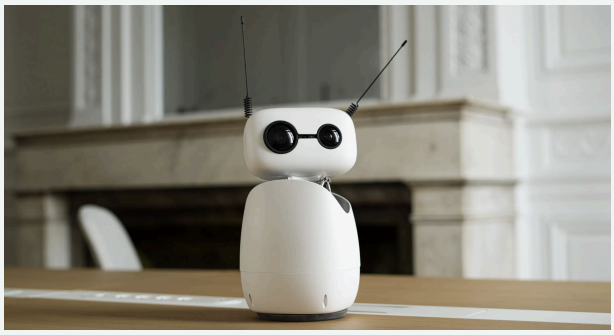
04 **Seamless Python Integration**

Prototype and deploy applications effortlessly using the intuitive Python SDK. With built-in support for Hugging Face Spaces, you can download and run ready-to-use "app store" behaviors like hand-tracking or AI conversation in just a few clicks.

05 **Versatile Build Versions**

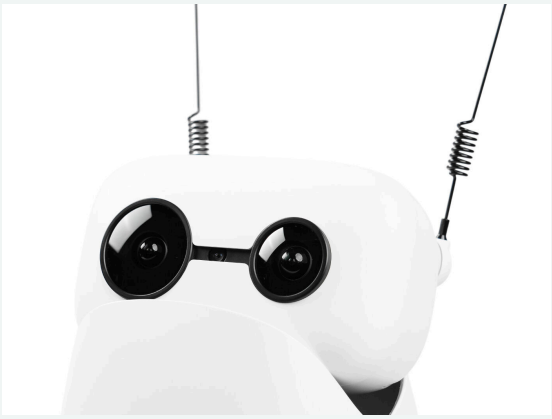
Available as an easy-to-assemble kit in two configurations—the Lite version (USB-tethered for computer-driven processing) and the Wireless version (fully autonomous with an onboard Raspberry Pi 4 and battery).

Product Gallery





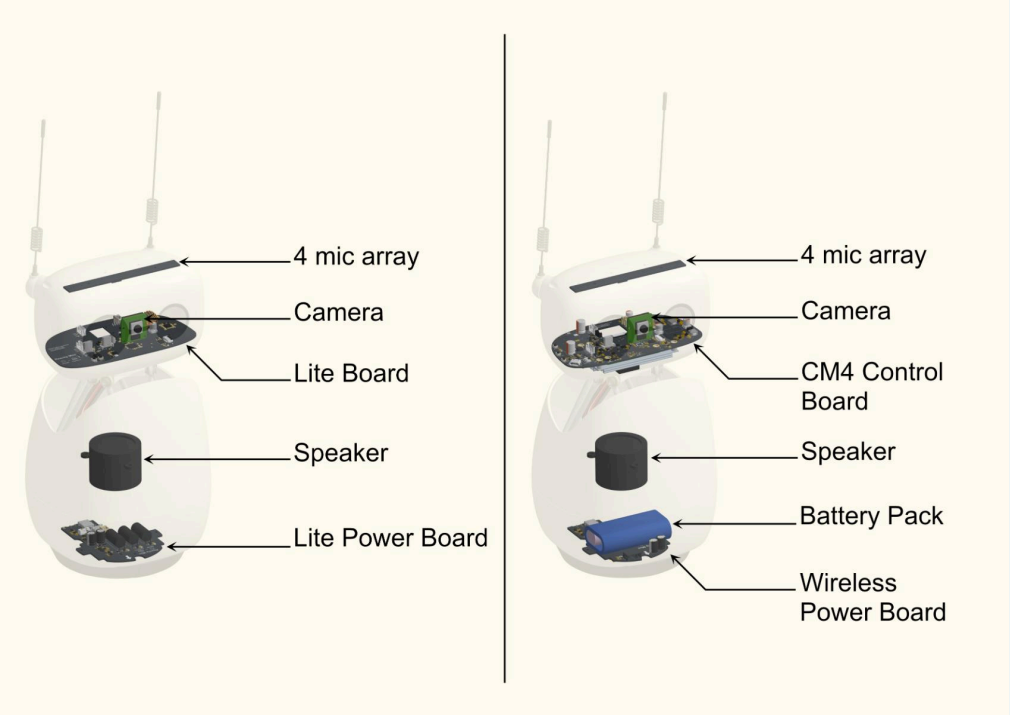


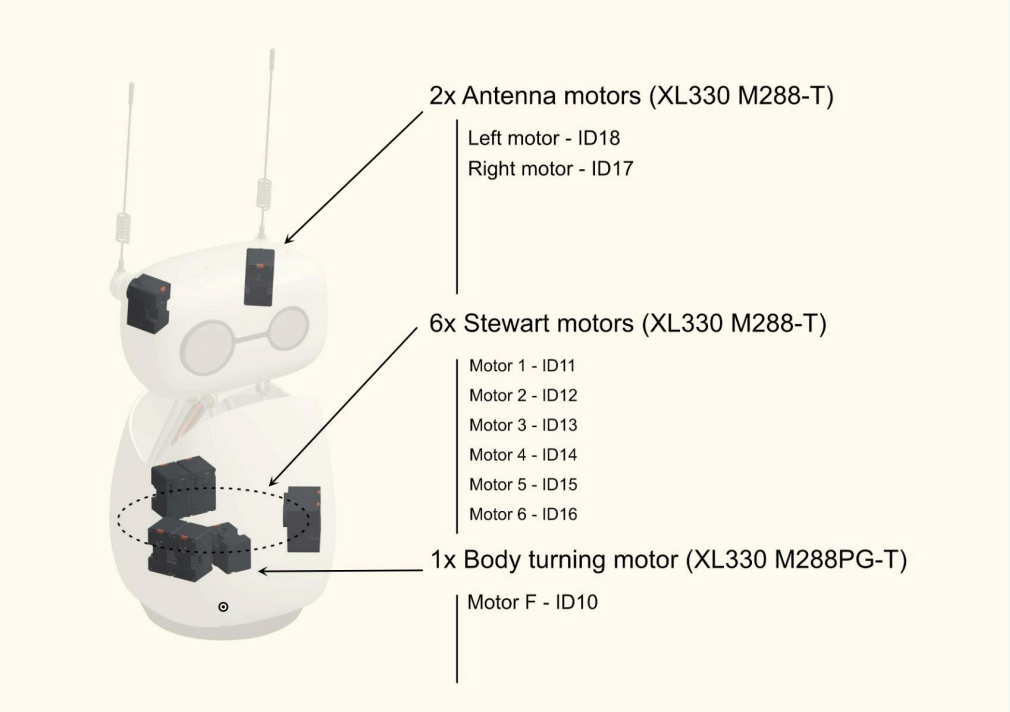


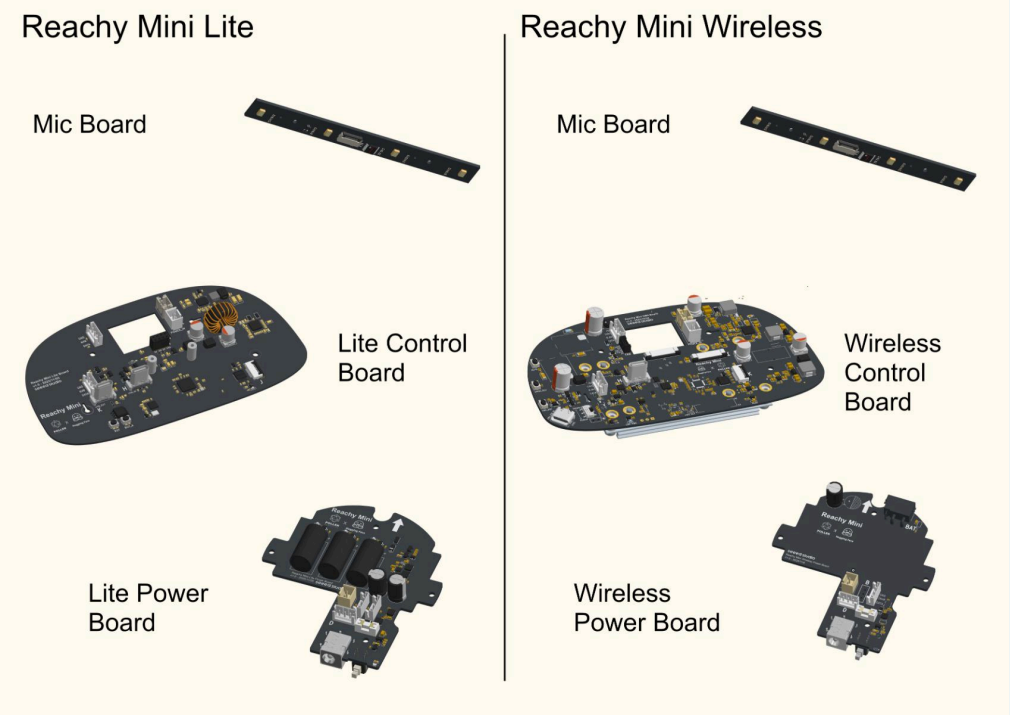




Hardware Overview






Reachy Mini Lite
Mic Board
Lite Control Board
Lite Power Board
Reachy Mini Wireless
Mic Board
Wireless Control Board
Wireless Power Board

Applications

- **Reachy Mini Web App Hub::** 280+ Apps! Instantly access a library of community and official apps—including AI conversation and hand tracking—directly through your browser. Browse, manage, and run applications online with no complex installation required.
- **Cross-Platform Desktop App::** Reachy Mini Control is your all-in-one cross-platform dashboard (Win/Mac/Linux) featuring real-time 3D piloting, a library of 100+ expressive motions, and instant App Store access for effortless robot management and development.
- **Embodied AI Companions: More Than Just a Chatbot:** Reachy Mini transforms abstract LLMs (like GPT-4 or Llama 3) into a tangible desktop friend. It doesn't just process text; it leans in to listen, nods in agreement, and uses its animated antennas to express curiosity or joy. Whether it's a helpful assistant or a sassy gaming partner, Reachy Mini makes AI interaction feel personal, warm, and genuinely alive.
- **Multimodal Data Collection: Teach by Showing:** Stop writing complex reward functions; start teaching by showing. Reachy Mini is a research-grade data rig disguised as a cute robot. Using VR headsets or simple web controls, you can "possess" the robot to perform tasks remotely. It automatically records synchronized video, audio, and motor joint data, creating perfect datasets to train end-to-end "pixels-to-actions" models effortlessly.
- **HRI & Psychology Research: The Science of Connection:** How does a human react when a robot looks sad? Reachy Mini's 9-DoF kinematics allows researchers to explore the subtle nuances of non-verbal communication. From the angle of a head tilt to the droop of an antenna, you can precisely control emotive gestures in controlled environments, unlocking new insights into human empathy, trust, and social bonding with machines.
- **STEM & Robotics Education: Make Math Move:** Make Math Move Turn dry equations into dancing robots. Reachy Mini is a captivating platform that makes complex concepts tangible. Students aren't just calculating matrices; they are using inverse kinematics (IK) to make Reachy wave hello, or deploying ROS 2 navigation to track a face. It bridges the gap between textbook theory and real-world engineering, making learning Python and embedded systems undeniably fun.

Resource Links

- https://www.seeedstudio.com/Reachy-Mini-Wireless-Kit-p-6724.html
- Reachy Mini Assembly Guide
- Reachy Mini Hardware
- Reachy Mini LITE Assembly Guide
- Reachy Mini LITE Hardware
- Reachy Mini Datasheet

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