

Robot Name: Accelerated Evolution T1 Robot

Robot Model: Accelerated T1

Robot Serial Number: 1

Robot Description: The Accelerated Evolution robot features a unique overall structural design, adopting a 23-degree-of-freedom mechanical structure with a height of 1.2 meters and a weight of 30 kilograms. The body is made of topologically optimized high-strength materials combined with low-reduction-ratio direct-drive joints, achieving both flexibility and impact resistance. It can perform daily walking movements such as forward, backward, and lateral motion, as well as high-difficulty actions like push-ups and Ip Man squats. It has active fall detection and autonomous recovery capabilities. Supported by a GPU with 200 TOPS AI computing power and a high-performance CPU, along with sensors such as a depth camera and IMU, it enables precise perception and intelligent interaction. It can withstand instantaneous impacts up to 15 N·s, supports simulation platforms such as Isaac Sim and Mujoco, is compatible with the ROS2 ecosystem, and provides open interfaces for secondary development.

Robot Origin: Not self-developed

Brand: Accelerated Evolution

Robot Form: Bipedal

Maximum effective center-of-mass extension to foot as a percentage of body height: 48%

Robot Control Mode: Fully autonomous

Robot Front View Image:

Robot Side View Image:

Robot Back View Image:

Robot Dimensions (Height, Width, Depth): 118, 47, 23 cm

Robot Weight: 30 kg

Battery Type: Lithium-ion battery

Battery Capacity: 0.5 kWh

Operating Voltage: 48 V

Power Consumption: 300 W

Battery Detachable for Charging: Yes

Accessories and Auxiliary Equipment: T1 Robot Stand

Auxiliary Equipment Image:

Communication Method: Local Area Network (LAN)

LAN Communication Type: 2.4G





