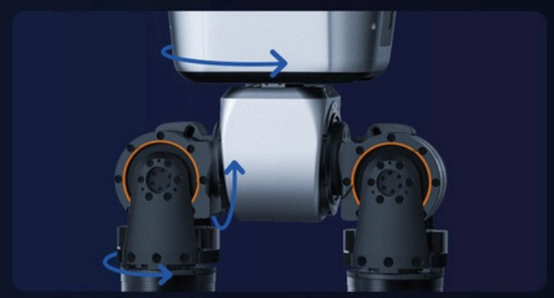
Lightweight
Flexible
Durable

Height about 1.2m
Weight about 30kg

Easy to lift by a single person

Extra large joint movement space

Capable of performing actions challenging for humans



Wear-resistant and anti-fall

By using topology optimization to improve structural strength, along with high-strength metals and engineering plastics to become fall resistant

Rich Mobility Capabilities

Walking Abilities

Forward | Backward | Lateral
Rotational | Omni-directional

Push Recovery and Fall Recovery

Withstands 15 N·s impact
Active fall | Get up

Soccer Skills

Autonomous soccer game
Dribble and high-kick
Throw-in

Motion Library

Push-ups
Kung-fu
Dance

Edge LLM Support

Can easily deploy edge LLM models and achieve various capabilities, including long text, retrieval-augmented generation (RAG), task execution etc.

Computing Unit Specification

Computing Power	Nvidia AGX Orin, provides 200 TOPS AI performance
Network	1000M Wired, Wifi 6, 5G (Optional)
Video	Depth Camera
Audio	Speaker, Microphone

Developer Friendly

API

- High-level motion interface
- Low-level hardware interface
- Status feedback interface

Popular simulation environments support

- Isaac Sim
- Mujoco
- Webots

Easily achieve multimodal interaction

- Optional edge LLM support
- Supports TTS (Text-to-Speech) ASR (Automatic Speech Recognition)
- Supports recognition algorithms like Yolo

ROS support

- Compatible with ROS2 ecosystem

APP support

- Quickly operate the robot and view its status

Booster T1
Parameter

BOOSTER ROBOTICS

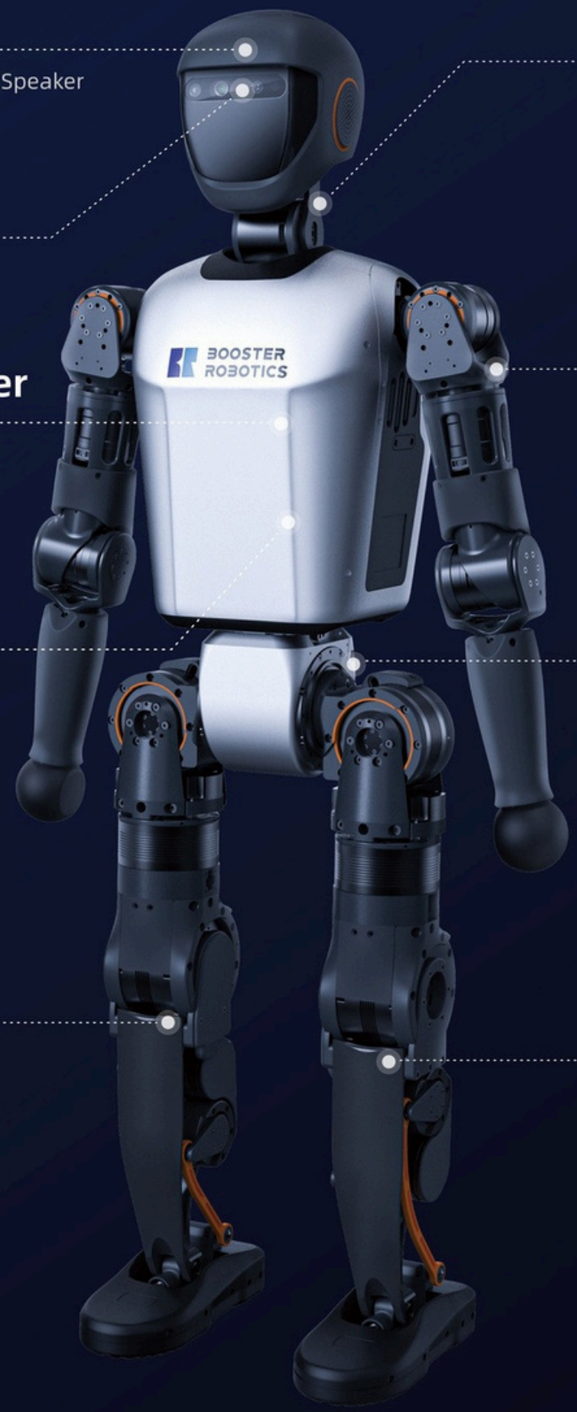
Voice Module
Circular 6-Microphone Array + Speaker

Vision Module
Depth Camera

Computing Power
Provides 200 TOPS AI performance

Battery
2h (Walking)
4h (Standing)

Joint
Peak torque of 130 N.m
Dual encoders



Head DoFs
2

Single Arm DoFs
4 (Extensible)

Waist DoFs
1

Single Leg DoFs
6

Specification	Booster T1
Size	118×47×23cm
Calf+Thigh Length	57cm
Arm Span	45cm
Weight	About 30 kg
Total Degrees of Freedom	23
Single Leg DoFs	6
Waist DoFs	1
Single Arm DoFs	4（Extensible）
Head DoFs	2
Max Torque of Knee Joint	130N.m
Joint Encoder	Dual Encoder
End Effector	Gripper (Optional)
Joint Movement Space	Waist Joint：±58° Hip Joint：P±118°、R-21°~+88°、Y±58° Knee Joint：-11°~123° Ankle Joint: P-50°~20° R±25°
CPU	14-core high-performance processor
GPU	Nvidia AGX Orin, provides 200 TOPS AI performance
Vision Module	Depth Camera
IMU	9-axis IMU
Voice Module	Microphone Array, Speaker
Battery	10.5Ah
Batter Life	2h（Walking）, 4h（Standing）
WiFi 6	Yes
Bluetooth 5.2	Yes
5G	Optional
Interface	USB、Ethernet
Firmware Upgrade	Yes
Edge LLM	MiniCPM (Optional)
Secondary Development	Yes
Warranty Period	1 Year

Génération ROBOTS

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