Booster T1 Basic – Specifications

- Humanoid robot platform (basic configuration)
- Approximate height: 1.2 m
- Dimensions: ~118 × 47 × 23 cm
- Weight: ~30 kg

Degrees of Freedom

- Total: 23 DoF (base configuration)
- Legs: 6 DoF per leg
- Waist: 1 DoF
- Arms: 4 DoF per arm
- Head: 2 DoF

Actuation & Motion

- High-torque actuators with peak torque up to ~130 N·m
- Dual encoders on joints for precise motion control
- Wide joint motion ranges for dynamic walking and manipulation

Computing & Processing

- NVIDIA Jetson AGX Orin onboard computer (AI acceleration)
- Optional Intel i7 processor depending on configuration

Sensors

- RGB-D depth camera
- 9-axis IMU
- Microphone array with onboard speaker

Power

- Battery capacity: ~10.5 Ah
- Operating time: approximately 2 hours walking
- Operating time: approximately 4 hours standing

Connectivity & Interfaces

- Wi-Fi 6

- Bluetooth 5.2

- USB and Ethernet ports for expansion

Software & Development

- Developer-oriented SDK and APIs

- ROS2 compatible

- Supports simulation environments such as Isaac Sim, MuJoCo, and Webots

- Mobile application for configuration and remote control

Other

- Supports firmware updates

- Secondary development and customization supported

- Standard warranty included