BahiaRT - Hardware Specification

1. Robot Identity

- **Robot Name:** Booster T1
- **Platform Type:** Standard Platform (Unmodified)
- **Manufacturer:** Booster Robotics

2. Physical Specifications

- **Height:** 1.18 m
- **Weight:** ~30 kg
- **Materials:** Standard Booster T1 composite and alloy chassis (Exact composition not specified in manufacturer documentation).

3. Degrees of Freedom (Total: 23 DoF)

- **Head:** 2 DoF (Yaw, Pitch)
- **Arms:** 4 DoF each (Shoulder Pitch/Roll/Yaw, Elbow)
- **Legs:** 6 DoF each (Hip Pitch/Roll/Yaw, Knee, Ankle Up/Down)
- **Waist:** 1 DoF (Yaw)
- **Motors:** Standard Booster T1 Joint Motors (Specific wattage/model proprietary to manufacturer).

4. Computing & Electronics

- **Main Computing Unit:** NVIDIA Jetson AGX Orin
- **Wireless Module:** Intel Wi-Fi 6E AX210
- **Sub-Controllers:** Standard Booster Motion Control Board
- **Battery:** Li-ion Pack 48V 10.5Ah (504Wh) - Model: Befine BF48105

5. Sensors

- **Camera: Stereolabs ZED 2i** (Stereo Depth Camera w/ Integrated IMU)
- **IMU:** Integrated ZED 2i Sensors + Internal Robot IMU
- **Microphone:** Integrated Array

6. Additional Information

- **Open Source:** N/A (Commercial Platform)
- **Documentation Note:** Per HSL rules for pre-approved standard platforms, specifications listed above are derived strictly from available manufacturer documentation (Manual V1.1 Legacy), available on:
  https://booster.feishu.cn/wiki/Gdn0wSoD0iSA0Tk0HrUcx70gnZg?fromScene=spaceOverview.

7. Photo