

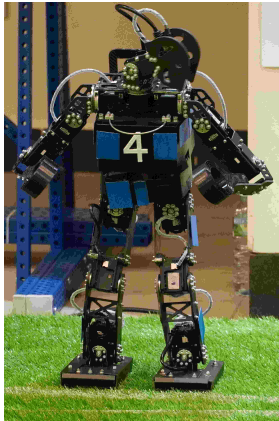
Starkit – Robot Specification

Humanoid soccer competition Kid-Size League, Robocup 2020 Bordeaux

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1 Robot Specification



- **Robot name:** Sigmaban S+
- **Height:** 64 cm
- **Weight:** 5.5 kg
- **Walking speed:** 35 cm/s
- **Motors:** 20 DOF
 - Neck: Dynamixel MX-64 (2 motors)
 - Upper Body: Dynamixel MX-64 (2 per arm) and Dynamixel MX-106 (1 per arm)
 - Lower Body: Dynamixel MX-106 (6 per leg)
- **Sensors:**
 - Camera: Point Grey Blackfly GigE
 - IMU: 9 Degrees of Freedom - Razor
 - Foot Pressure: 4 Strain Gauge Sensors per foot
- **Computing units:**
 - Low-level: ARM7 (stm32) 72MHz (Maple mini)
 - High-level: Intel NUC
 - * Intel Core i5 AMD 1.2 GHz Micro-6700T
 - * 8GB RAM
 - * SSD 256Go
- **Operating System:** Linux (Ubuntu 18.04 Bionic)