Berlin United - FUnanoids
Robot Specification Sheet 2017

Names: Alan, Ada, John, and Emmy
Height: 65cm
Weight: 4400g
Walking Speed: ≈ 20cm/s
DoF: 20 total
(5 per leg, 2 in the hip, 3 per arm, 2 in the head)
Type of motors: 10 Dynamixel RX-64
10 Dynamixel RX-28
Computing unit(s): Central unit is an ODROID-X2 board with
- Exynos4412 Prime Quadcore ARM Cortex-A9
  at 1.7 GHz
- 2 GB RAM
- 8 GB eMMC
- 93 x 95mm
Sensor and actuator communication unit with
- one ARM Cortex M4 @ 168 MHz
- 196 KiB RAM
- 1 MiB flash
- 60 x 40mm
Camera: Logitech HD Pro Webcam C910 at 960x720
Additional Sensors: two 6 DOF IMU (gyroscope and accelerometer)
Servo motor position feedback
Names Curious Capacitor, Twisted Transistor

Height 73cm

Weight 4500g

Walking Speed $\approx 25\text{cm/s}$

DoF 20 total

$(6 \text{ per leg}, 3 \text{ per arm}, 2 \text{ in the head})$

Type of motors
6 Dynamixel MX-106
6 Dynamixel MX-64
8 Dynamixel MX-28

Computing unit(s) Central unit is an ODROID-XU4 board with

- SAMSUNG Exynos 5422, Cortex-A15 & Cortex-A7 big.LITTLE, Octa core at 2GHz
- 2 GB RAM
- 64 GB eMMC
- 82 x 58mm

Sensor and actuator communication unit with

- one ARM Cortex M4 @ 168 MHz
- 196 KiB RAM
- 1 MiB flash
- 60 x 40mm

Camera Logitech HD Pro Webcam C910 at 1280x720

Additional Sensors two 6 DOF IMU (gyroscope and accelerometer)

Servo motor position feedback