

Self-Reconfigurable Quadraped BOM

Motors and controllers

- <https://www.robotis.us/dynamixel-xc430-t240bb-t/> - DYNAMIXEL XC430-T240BB-T (x12)
- <https://www.robotis.us/robot-cable-x3p-180mm-10pcs/> - TTL communication 3P cable set for Dynamixel X-series.
- <https://www.robotis.us/3p-jst-expansion-board/>
- <https://www.robotis.us/hn12-i101-set/>
- https://en.robotis.com/shop_en/item.php?it_id=902-0132-000 - U2D2 USB communication converter
- https://en.robotis.com/shop_en/item.php?it_id=902-0145-001 - U2D2 Power Hub Board
- DC 12V Power Supply
- <https://www.adafruit.com/product/4502> - IMU
 - <https://learn.adafruit.com/lsm6dsch-and-ism330dch-6-dof-imu/arduino>
- RPi5
- Micro HDMI to HDMI Adapter (to connect RPi5 to a monitor)
- Micro SD card

Running untethered

- [XT60 to DC5521 Power Cable, XT-60 Male to DC 5.5mm x 2.1mm Male Adapter Cord](#)
- [5.5x2.1mm Female Jack to 5.5x2.5mm Male Plug Adapter DC Barrel Power Jack Charging Cable Connector](#)
- [11.1v 5200mah 50c lipo battery 3sT](#)
- [velcro strap](#)
- [Lipo Battery Voltage Checker](#)
- [12V to 5V5A Converter](#)

Other

- M2 hex nuts, screws, and lock washers
- M2.5 hex nuts, screws, and lock washers
- M2 heat inserts
- M2 M2.5 M3 Brass Standoff Set