

| Category              | Board(s) (if applicable) |
|-----------------------|--------------------------|
| Accessory             | N/A                      |
| Accessory             | N/A                      |
| Accessory             | N/A                      |
| Accessory             | N/A                      |
| Battery               | N/A                      |
| Battery               | N/A                      |
| Battery               | N/A                      |
| Component             | Main                     |
| Component             | N/A                      |
| Component             | N/A                      |
| Component             | Main                     |
| Component             | Main                     |
| Component             | Main                     |
| Component             | Main                     |
| Component             | Main                     |
| Component             | Main                     |
| Component             | Main                     |
| Component             | Main                     |
| Connector             | Leg, Main                |
| Connector             | Leg, Main                |
| Connector             | Main                     |
| Connector             | Leg, Main                |
| Connector             | Main                     |
| Connector             | Main                     |
| Connector             | Main                     |
| Controller            | N/A                      |
| Cooling               | Raspberry Pi             |
| Cooling               | N/A                      |
| Micro SD Card         | Raspberry Pi             |
| Microcontroller       | Main                     |
| PCB                   | Main                     |
| PCB                   | Leg                      |
| Servos                | N/A                      |
| Single Board Computer | Raspberry Pi             |
| Wiring                | N/A                      |
| Wiring                | N/A                      |
|                       |                          |
|                       |                          |

| Item  |
|---|
| NeoPixel 1/4 60 Ring - 5050 RGBW LED w/ Integrated Drivers - Cool White - ~6000K              |
| HDMI 5" 800x480 Display Backpack - With Resistive Touchscreen                                 |
| Micro Limit Switch  |
| Lidar <TBD>   |
| Lipo Battery 5200mAh 50C 11.1V  |
| Fireproof Explosionproof Large Capacity Battery Storage Guard Pouch                           |
| Tenergy TB-6AB Balance Charger Discharger 1S-6S Digital Battery Pack Charger                  |
| 4 Position Dip Switch   |
| Momentary Switch  |
| Power Switch  |
| 1k ohm Resistor - 0805 SMD  |
| 200 ohm Resistor - 0805 SMD   |
| Red LED - 0805 SMD  |
| Blue LED - 0805 SMD   |
| 3.3v to 5v Logic Converter (74LVC1T45GW,125)  |
| Voltage Divider   |
| TALL GPIO FEMALE HEADERS - 2X20   |
| Header Pins - 1 x 24  |
| JST-XH-02 - Pair  |
| JST-XH-03 - Pair  |
| JST-XH-04 - Pair  |
| JST-XH-06 - Pair  |
| XT30PW-M  |
| XT30-U  |
| XT60PW-M  |
| Xbox Core Wireless Gaming Controller  |
| Aluminum Heatsinks  |
| Noctua NF-A8 5V PWM, Premium Quiet Fan with USB Power Adaptor Cable, 4-Pin, 5V Version (80mm) |
| 128 GB SD Card  |
| Teensy 4.1  |
| Main Board  |
| Leg Board   |
| 30KG Digital servo high Torque Full Metal Gear  |
| Raspberry Pi 5 - 8 GB RAM   |
| Micro HDMI to HDMI Wire <TBD>   |
| Main to Leg Connections <TBD>   |
|   |
|   |

| Quantity | Approx. Unit Cost | Approx. Total Cost | Link  |
|----------|-------------------|--------------------|---|
| 4        | \$ 11.95          | \$ 47.80           | <a href="https://www.adafruit.com/product/2875">https://www.adafruit.com/product/2875</a> |
| 1        | \$ 74.95          | \$ 74.95           | <a href="https://www.adafruit.com/product/2260">https://www.adafruit.com/product/2260</a> |
| 6        | \$ 0.28           | \$ 1.68            | <a href="https://a.co/d/03QUmxxQ">https://a.co/d/03QUmxxQ</a>                             |
| 0        | \$ -              | \$ -               |   |
| 1        | \$ 31.49          | \$ 31.49           | <a href="https://a.co/d/0arMCEnw">https://a.co/d/0arMCEnw</a>                             |
| 1        | \$ 13.49          | \$ 13.49           | <a href="https://a.co/d/0e39bDe3">https://a.co/d/0e39bDe3</a>                             |
| 1        | \$ 39.99          | \$ 39.99           | <a href="https://a.co/d/04OFANOm">https://a.co/d/04OFANOm</a>                             |
| 1        | \$ 0.30           | \$ 0.30            | <a href="https://a.co/d/00j9Virv">https://a.co/d/00j9Virv</a>                             |
| 1        | \$ 5.00           | \$ 5.00            | <a href="https://a.co/d/0b9twNSM">https://a.co/d/0b9twNSM</a>                             |
| 1        | \$ 1.40           | \$ 1.40            | <a href="https://a.co/d/0cDI28JW">https://a.co/d/0cDI28JW</a>                             |
| 1        | \$ 0.01           | \$ 0.01            | <a href="https://a.co/d/05essy1o">https://a.co/d/05essy1o</a>                             |
| 1        | \$ 0.01           | \$ 0.01            | <a href="https://a.co/d/05essy1o">https://a.co/d/05essy1o</a>                             |
| 1        | \$ 0.07           | \$ 0.07            | <a href="https://a.co/d/07H2SZfK">https://a.co/d/07H2SZfK</a>                             |
| 1        | \$ 0.07           | \$ 0.07            | <a href="https://a.co/d/07H2SZfK">https://a.co/d/07H2SZfK</a>                             |
| 1        | \$ 0.52           | \$ 0.52            | <a href="https://www.digikey.com/en/products/d">https://www.digikey.com/en/products/d</a> |
| 1        | \$ 4.81           | \$ 4.81            | <a href="https://www.digikey.com/en/products/d">https://www.digikey.com/en/products/d</a> |
| 1        | \$ 1.95           | \$ 1.95            | <a href="https://www.digikey.com/en/products/d">https://www.digikey.com/en/products/d</a> |
| 2        | \$ 0.17           | \$ 0.34            | <a href="https://a.co/d/089sueuG">https://a.co/d/089sueuG</a>                             |
| 7        | \$ 0.03           | \$ 0.21            | <a href="https://a.co/d/03VvZ2aq">https://a.co/d/03VvZ2aq</a>                             |
| 19       | \$ 0.03           | \$ 0.57            | <a href="https://a.co/d/03VvZ2aq">https://a.co/d/03VvZ2aq</a>                             |
| 1        | \$ 0.03           | \$ 0.03            | <a href="https://a.co/d/03VvZ2aq">https://a.co/d/03VvZ2aq</a>                             |
| 12       | \$ 0.03           | \$ 0.36            | <a href="https://a.co/d/03VvZ2aq">https://a.co/d/03VvZ2aq</a>                             |
| 3        | \$ 0.96           | \$ 2.88            | <a href="https://a.co/d/0aSlfwzo">https://a.co/d/0aSlfwzo</a>                             |
| 3        | \$ 0.85           | \$ 2.55            | <a href="https://a.co/d/017gKTzp">https://a.co/d/017gKTzp</a>                             |
| 1        | \$ 2.00           | \$ 2.00            | <a href="https://a.co/d/06amuL7W">https://a.co/d/06amuL7W</a>                             |
| 1        | \$ 47.00          | \$ 47.00           | <a href="https://a.co/d/02mnp9V5">https://a.co/d/02mnp9V5</a>                             |
| 3        | \$ 0.30           | \$ 0.90            | <a href="https://a.co/d/04lbYiWU">https://a.co/d/04lbYiWU</a>                             |
| 1        | \$ 16.95          | \$ 16.95           | <a href="https://a.co/d/0ccSLfRo">https://a.co/d/0ccSLfRo</a>                             |
| 1        | \$ 23.00          | \$ 23.00           | <a href="https://a.co/d/07I9OVwk">https://a.co/d/07I9OVwk</a>                             |
| 1        | \$ 33.08          | \$ 33.08           | <a href="https://www.digikey.com/en/products/d">https://www.digikey.com/en/products/d</a> |
| 1        | \$ 2.18           | \$ 2.18            | <a href="https://github.com/ManufacturedMotion">https://github.com/ManufacturedMotion</a> |
| 6        | \$ 0.48           | \$ 2.88            | <a href="https://github.com/ManufacturedMotion">https://github.com/ManufacturedMotion</a> |
| 18       | \$ 15.67          | \$ 282.06          | <a href="https://a.co/d/07YMRrNh">https://a.co/d/07YMRrNh</a>                             |
| 1        | \$ 80.00          | \$ 80.00           | <a href="https://www.adafruit.com/product/5813">https://www.adafruit.com/product/5813</a> |
| 0        | \$ -              | \$ -               |   |
| 0        | \$ -              | \$ -               |   |
|          |                   | <b>\$ 720.53</b>   |   |
|          |                   |                    |   |

