

Brief Overview

Battery: Provides power for all electrical components.

Beaglebone Black: The brain of the robot.

Motor Controller: Controls the amount of power that goes to the motor.

Motor: Converts electrical energy into mechanical energy to move the robot.

PDB (Power Distribution Board): Distributes power to all electrical components.

RFID Sensor: Reads wirelessly powered and transmitted data.

Servo: Converts electrical energy into precise degrees of mechanical movement. Polarity: GND = **Brown**, VCC = **Red**, SIG = **Orange**

Servo Controller: Controls servo motors.

Smart Sensor: Relays information from sensors to robot.

Team Flag: Displays team color.

USB Hub: Interfaces all components with Beaglebone Black.

Wi-Fi Dongle: Connects to Wi-Fi network.

Wires/Connectors

USB A to Micro B



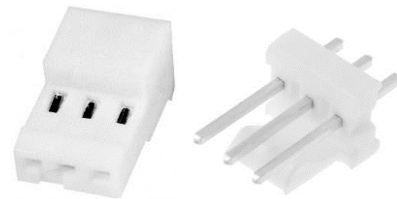
Barrel Jack



Anderson to Anderson



MTA



ATX



XT60



Naming Guide

