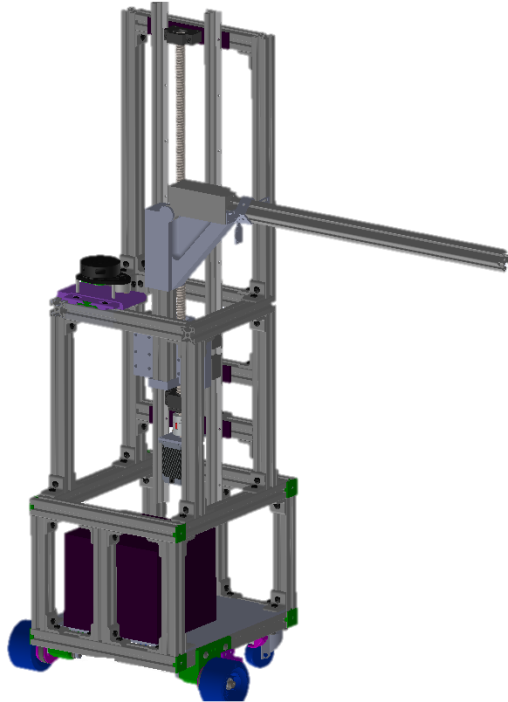


CAST Robot Wiring Guide

CAST Bot Contains one CPU

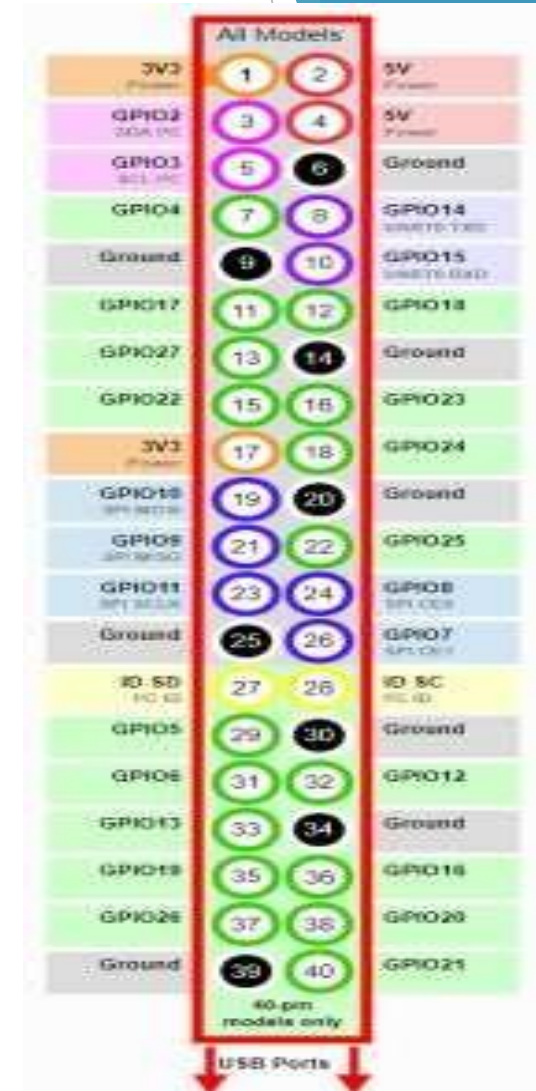
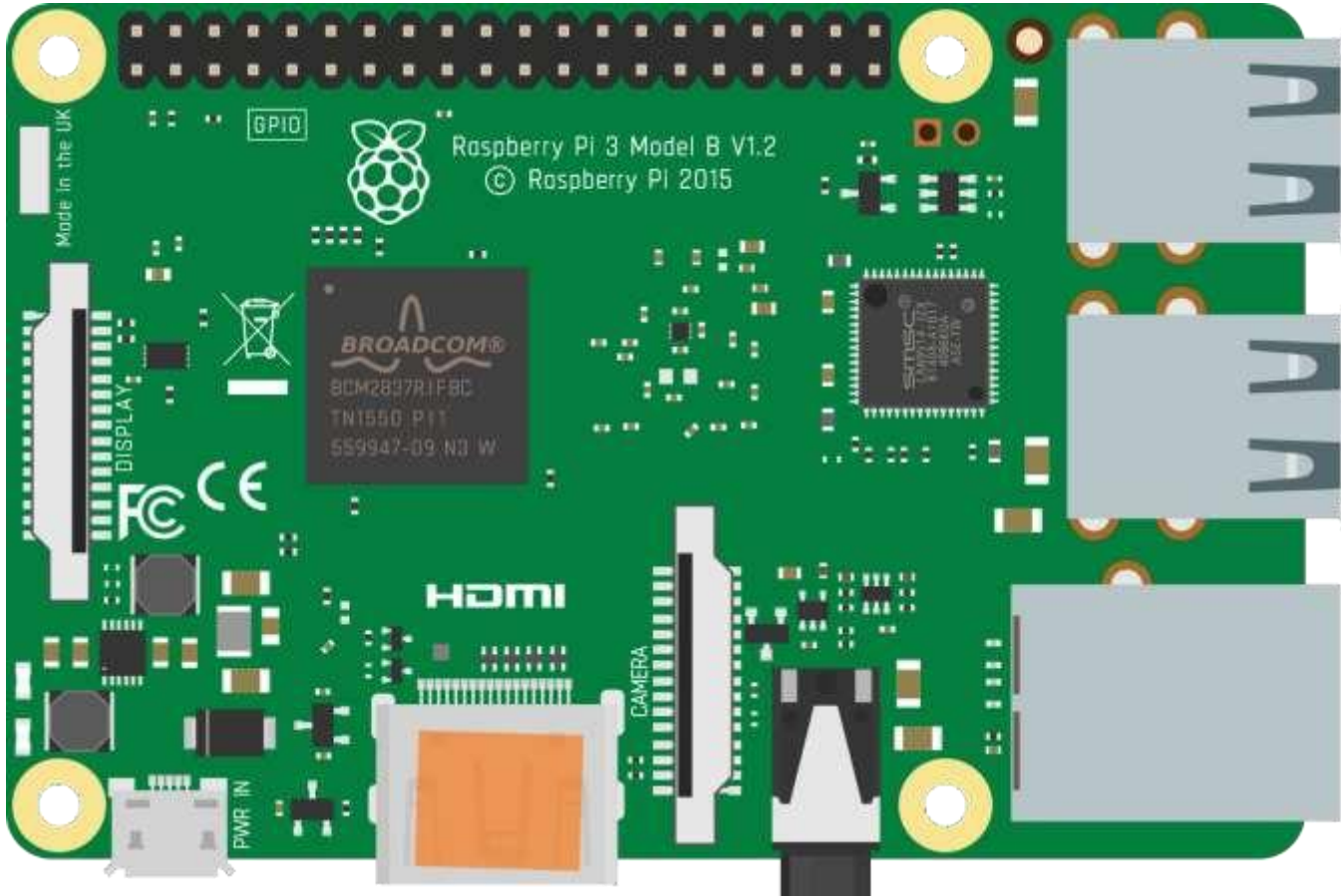
CAST Bot



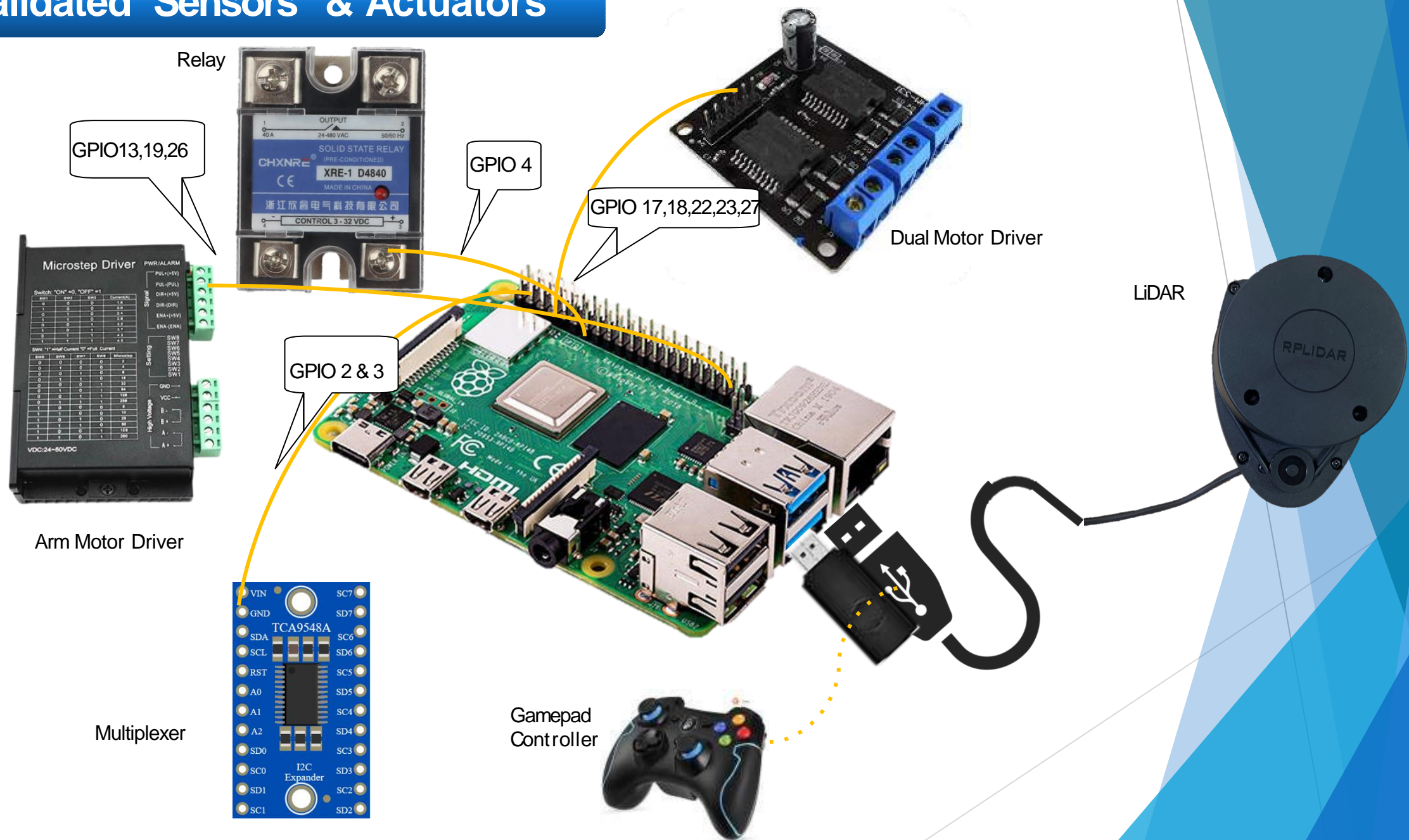
Raspberry Pi 4



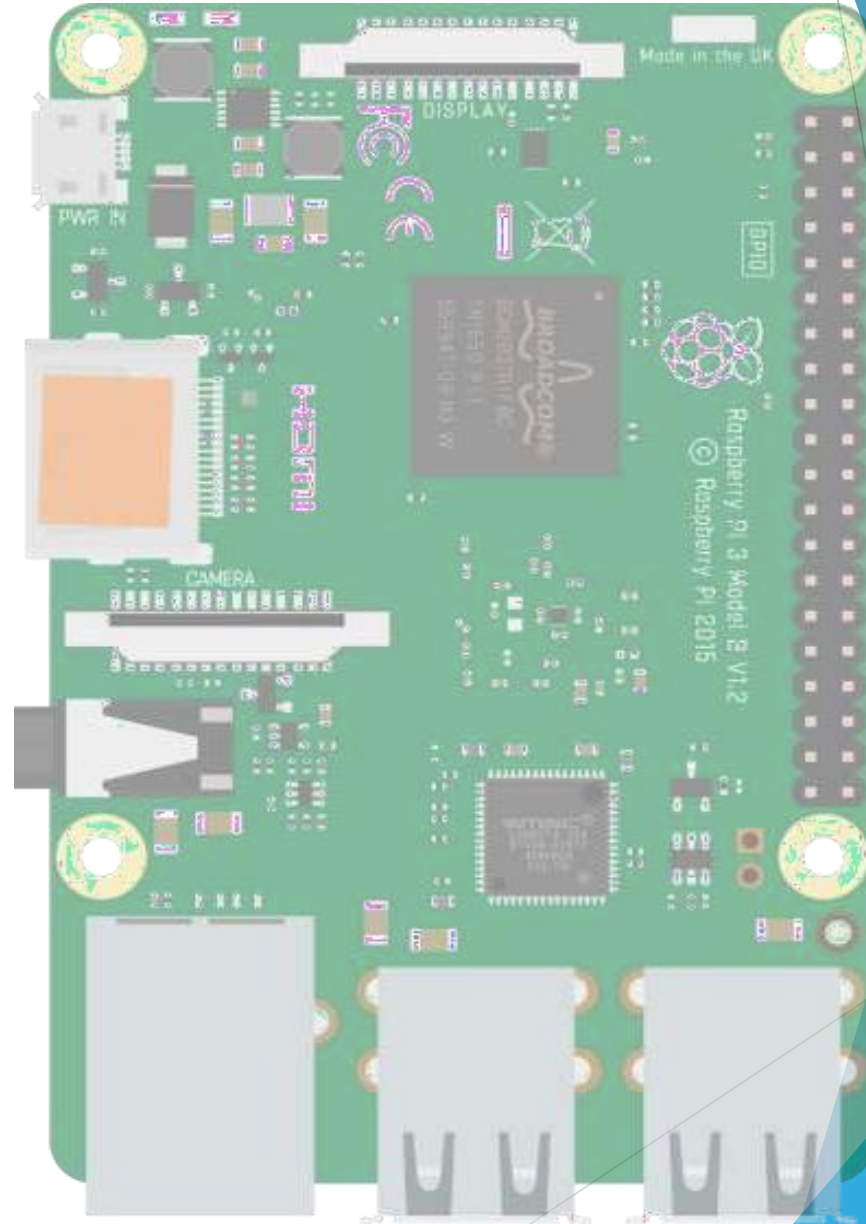
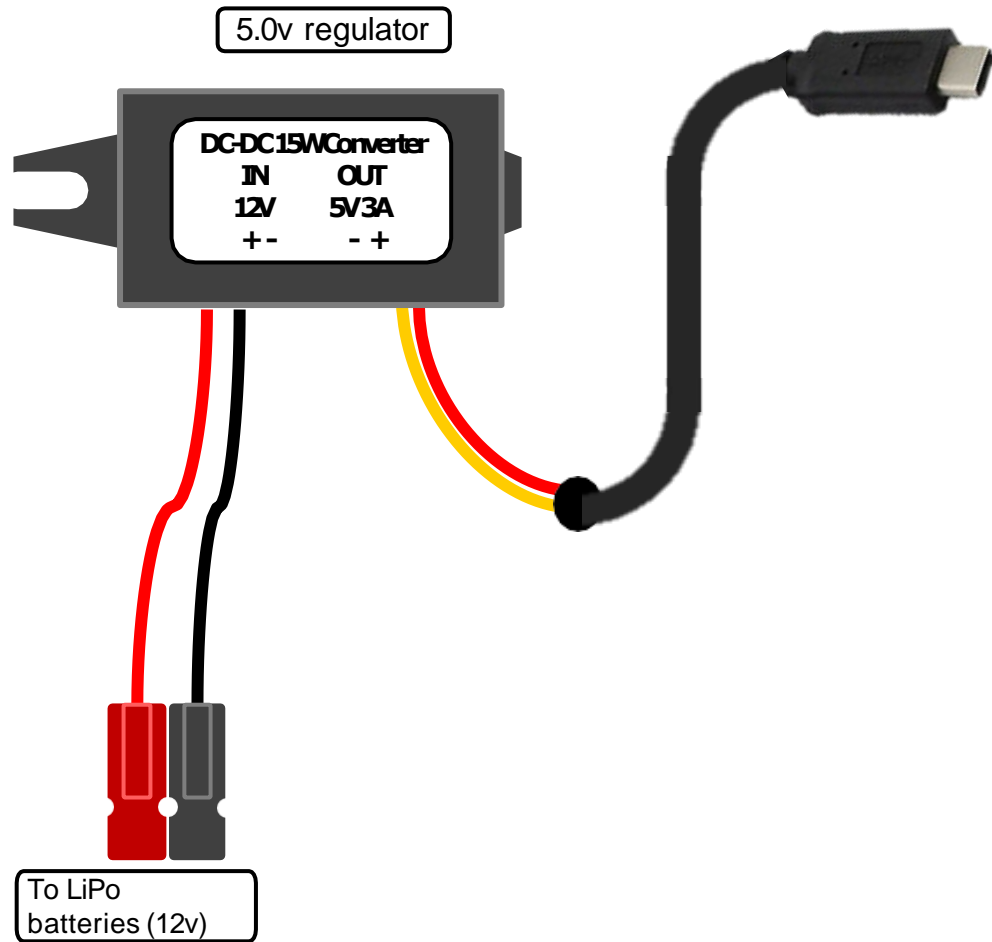
CAST Wiring For Raspberry Pi 4



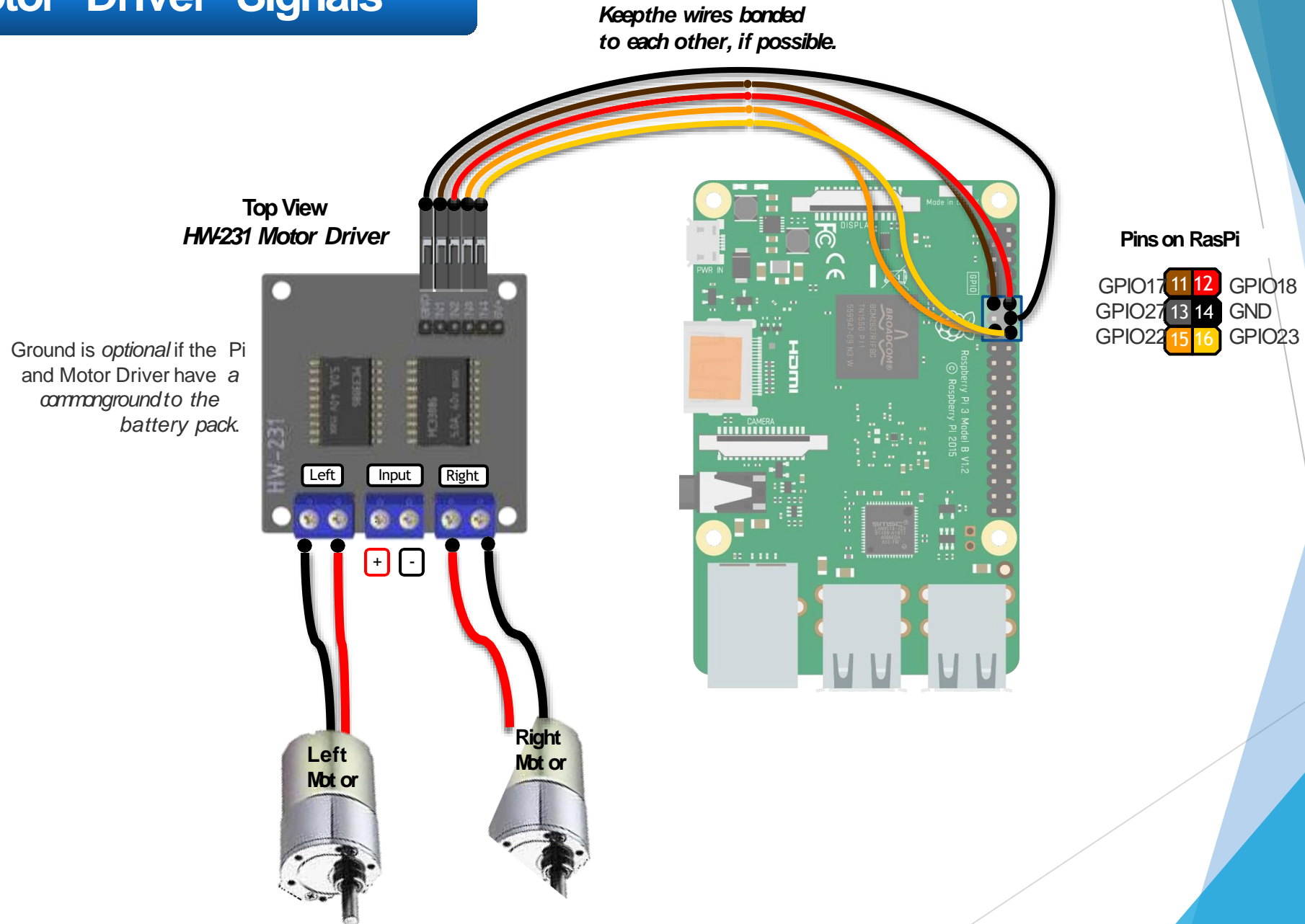
Validated Sensors & Actuators



Pi - Power Supply

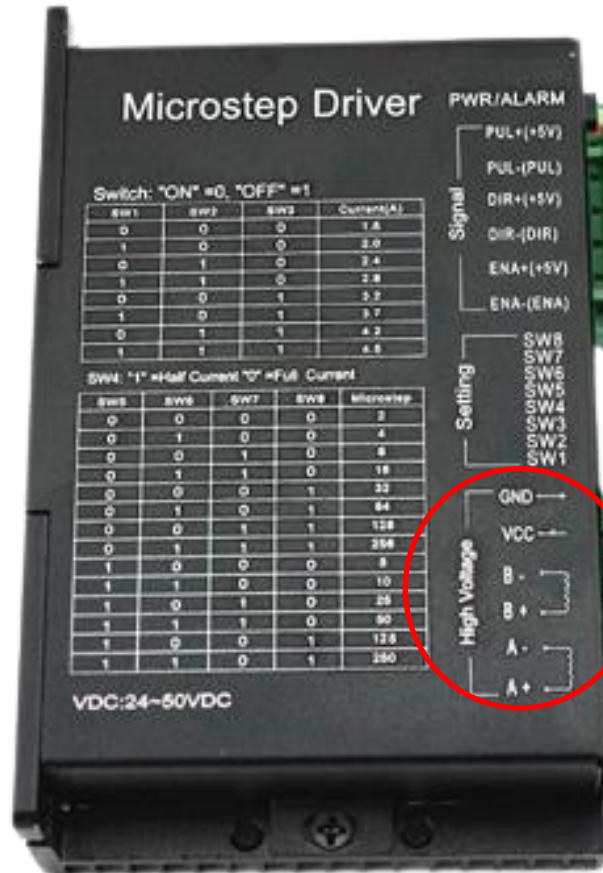


Pi - Motor Driver Signals



PI - Stepper Driver - ST-M5045

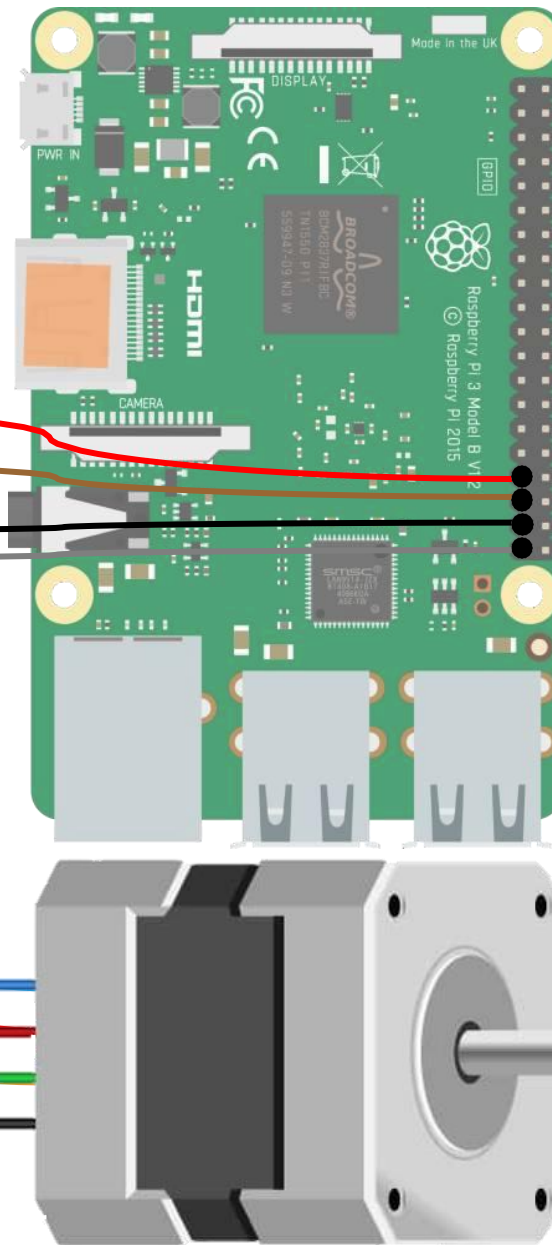
Top View
ST-M5045 Motor Driver



Short by solder

Keep the wires bonded to each other, if possible.

The order on the motor may not be the same.



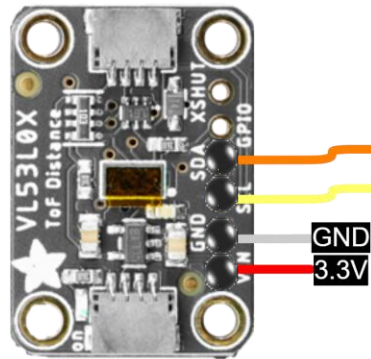
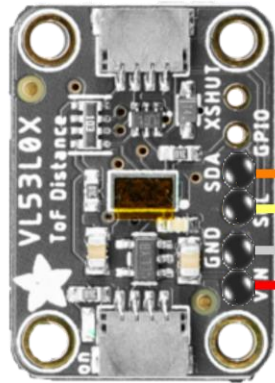
- Pins on RasPi
- GPIO13 33
 - GPIO19 35
 - GPIO26 37
 - GND 39

PI - Multiplexer – TCA9548A

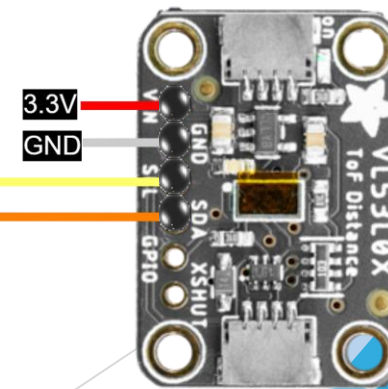
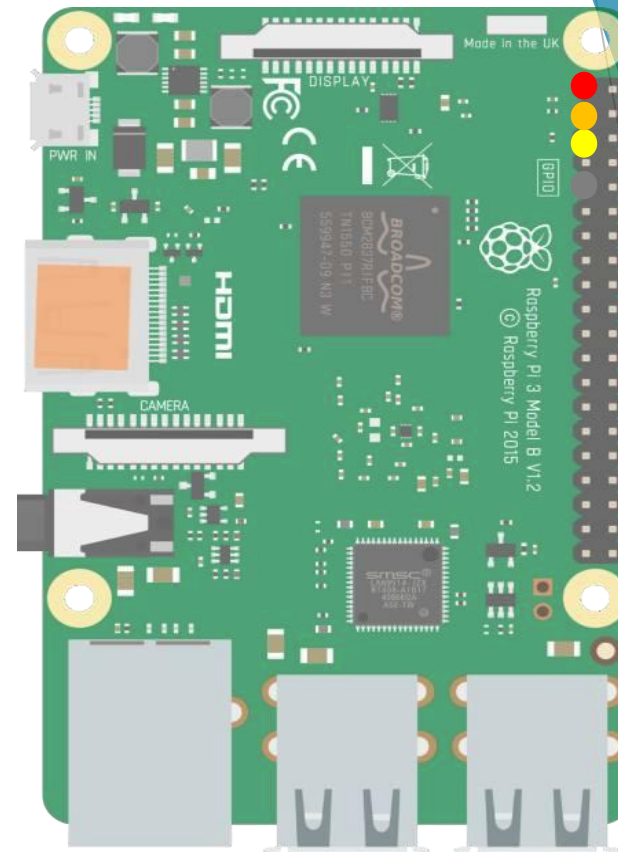
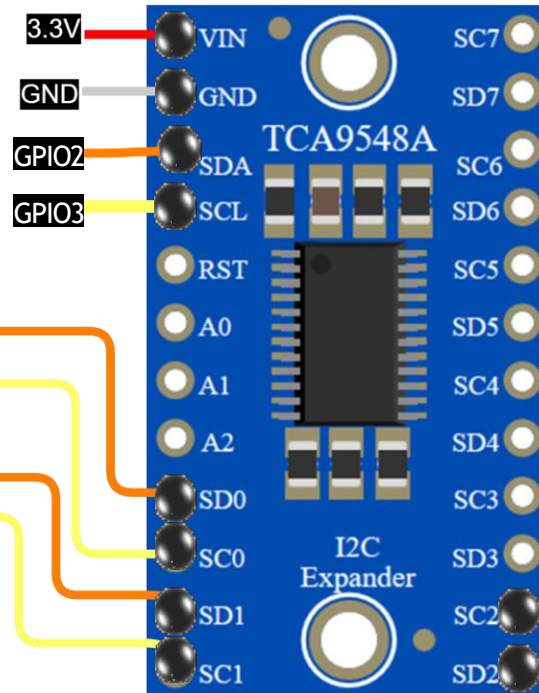
Pins on RasPi

3.3V 1
GPIO2 3
GPIO3 5
GND 9

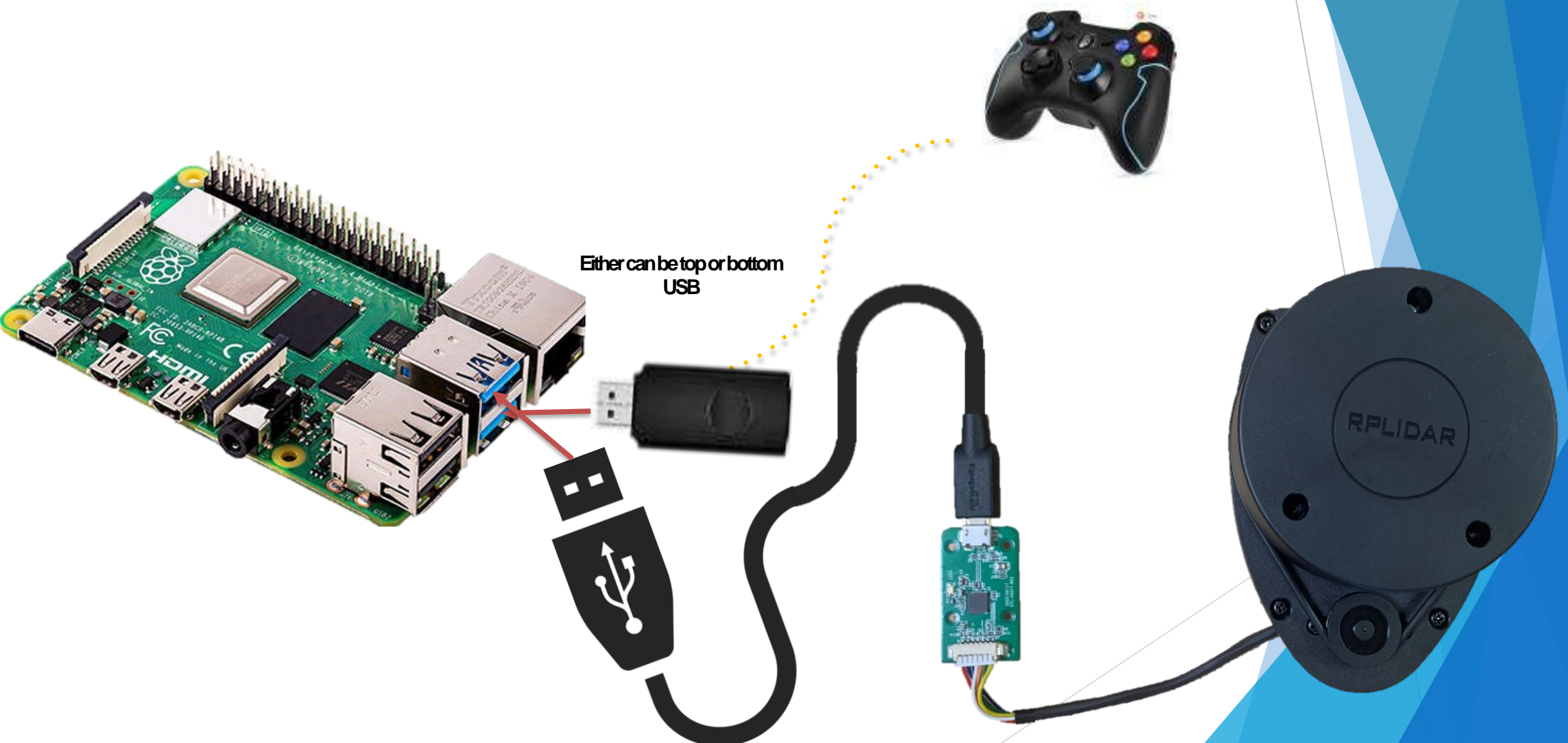
Top View
VL53L0X ToF Sensors



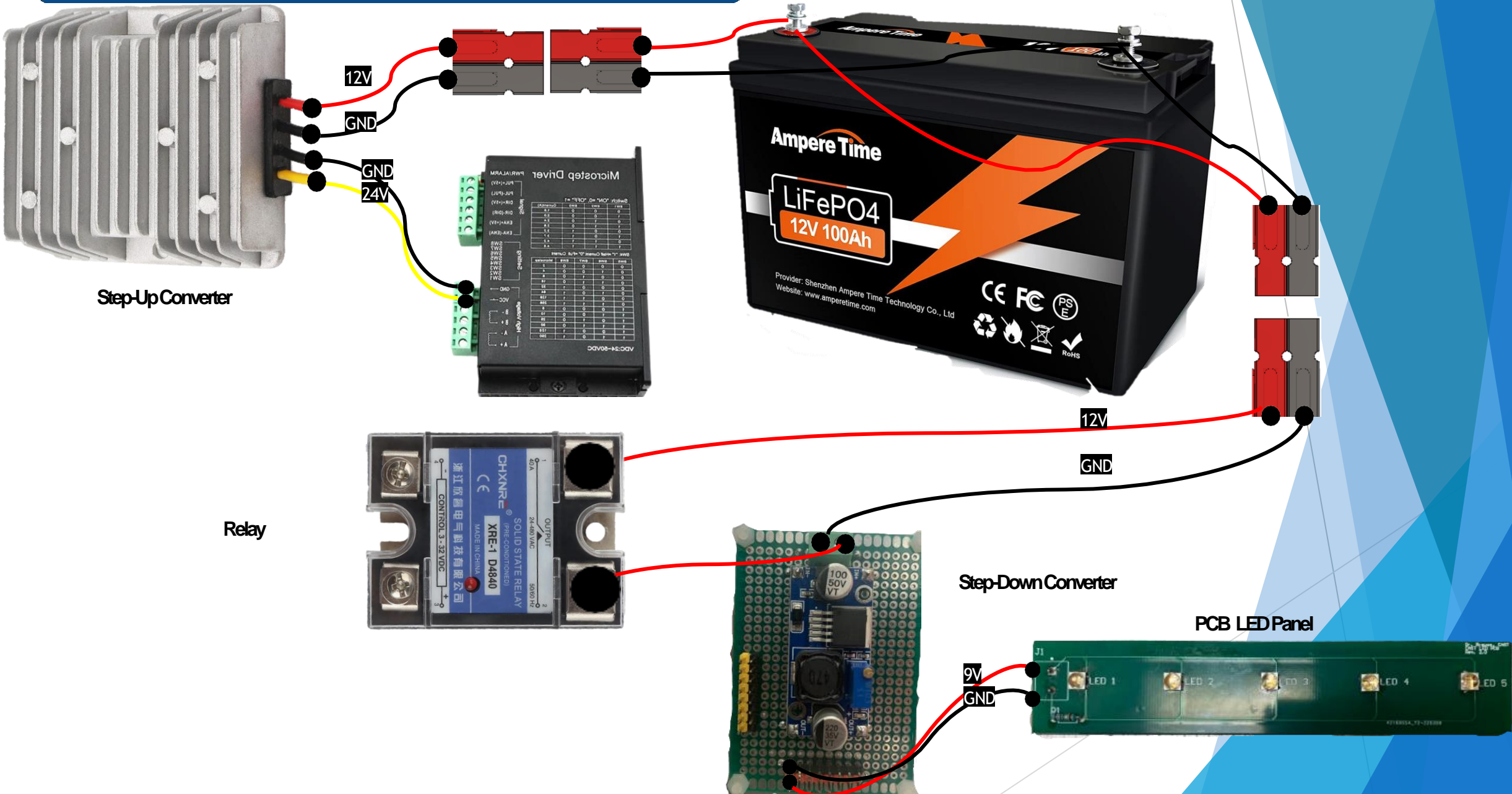
Top View
TCA9548A Multiplexer



PI - RPLiDAR and Gamepad



LiPo Battery– Step Up & Step Down



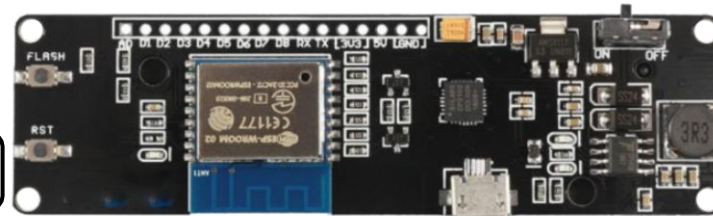
Bacteria Killed Indicator Wiring Guide

Bacteria Killed Indicator Contains one CPU

Bacteria Killed Indicator



WemosD1



Wemos D1 - Wiring

