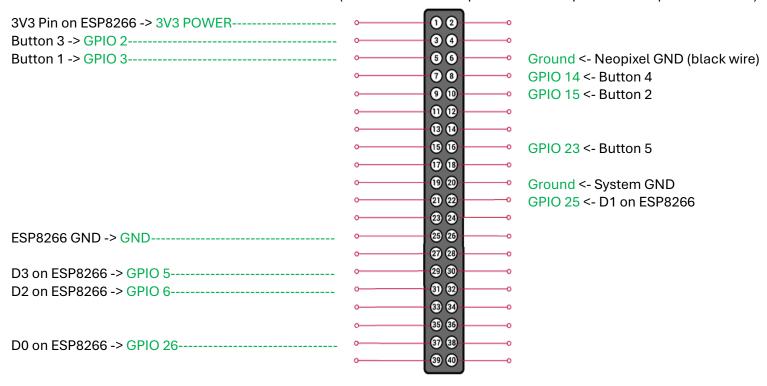
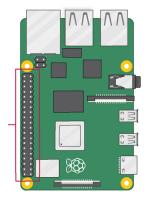


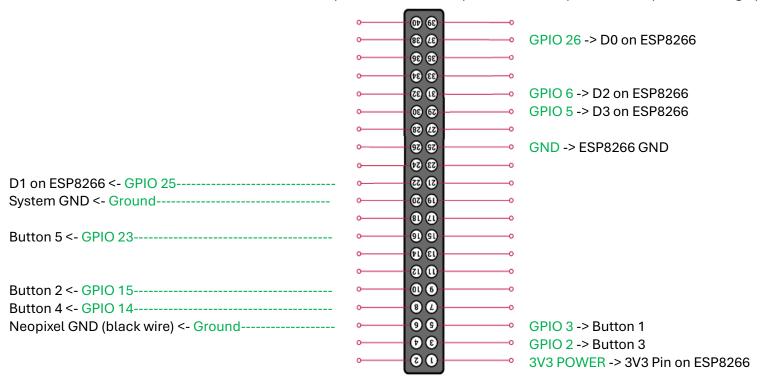
RPi 3 Connections (as viewed with USB ports below and power / hdmi ports to the left):



GREEN = RPi Pinout, BLACK = Corresponding connection

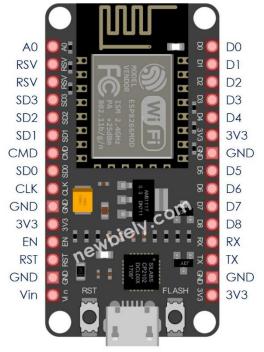


RPi 3 Connections (as viewed with USB ports above and power / hdmi ports to the right):



GREEN = RPi Pinout, BLACK = Corresponding connection

ESP8266 Connections



- -> RPi GPIO26
- -> RPi GPIO25
- -> RPi GPIO6
- -> RPi GPIO5

ESP8266 NodeMCU Pinout

Arduino MEGA Connections

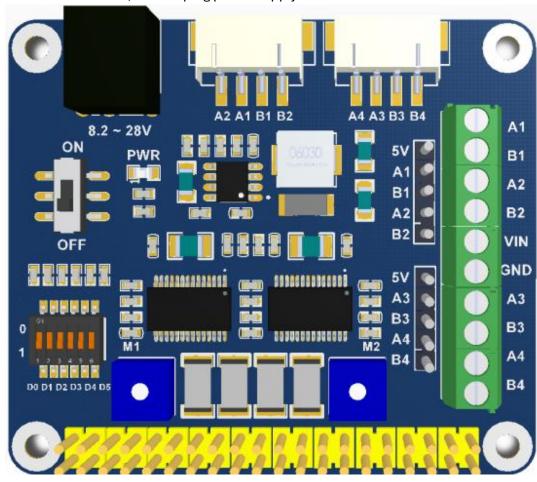
(very simple, doesn't really need a diagram)
Digital 7 -> Neopixel signal wire (green wire)
Vin -> Stepper Motor HAT 5V pin
GND -> ground

BLUE = Arduino Pinout, BLACK = Corresponding connection

Stepper Motor HAT

For A1-4 and B1-4, just use these two white connectors at the top, the Nema 17 motors connect to these directly.

8.2 ~ 28V Vin -> 12V, 5A wall plug power supply



A1,B1,A2,B2 -> horizontal stepper motor 5V -> Arduino Vin

A3,B3,A4,B4 -> vertical stepper motor 5V -> neopixel Vin (red wire)

ORANGE = HAT Pinout, BLACK = Corresponding connection

Neopixel Pinout (simple, no diagram needed)

Vin (red wire) -> 5V HAT Pin
Data In (green wire) -> Arduino D7 Pin
GND (black wire) -> RPi GND