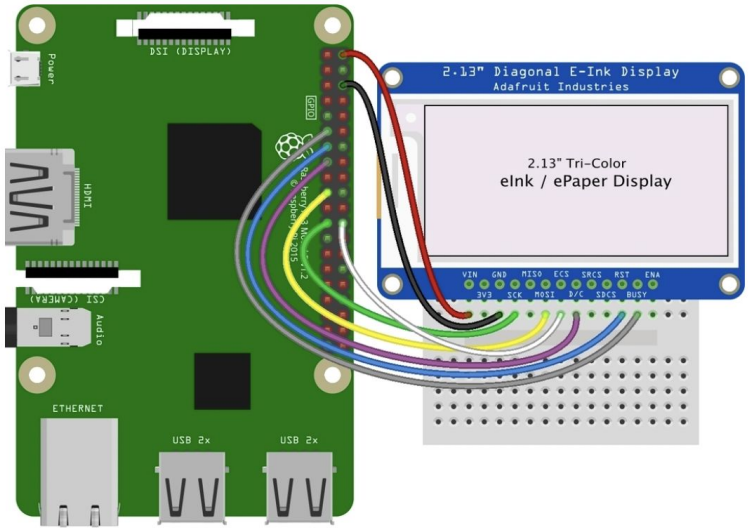
DATASHEET

2.13 E-ink to RPi4

Python Wiring

The wiring for the eInk Breakout and eInk Breakout Friend to the Raspberry Pi is the same.

- **Raspberry Pi 3.3** to **display VIN**
- **Raspberry Pi GND** to **display GND**
- **Raspberry Pi SCLK** to **display SCK**
- **Raspberry Pi MOSI** to **display MOSI**
- **Raspberry Pi GPIO CE0** to **display ECS**
- **Raspberry Pi GPIO 22** to **display D/C**
- **Raspberry Pi GPIO 27** to **display RST**
- **Raspberry Pi GPIO 17** to **display BUSY**



Load Cell + HX711 to ESP32

Load Cell > HX711:

Green > A+
Red > E+
Black > E-
White > A-

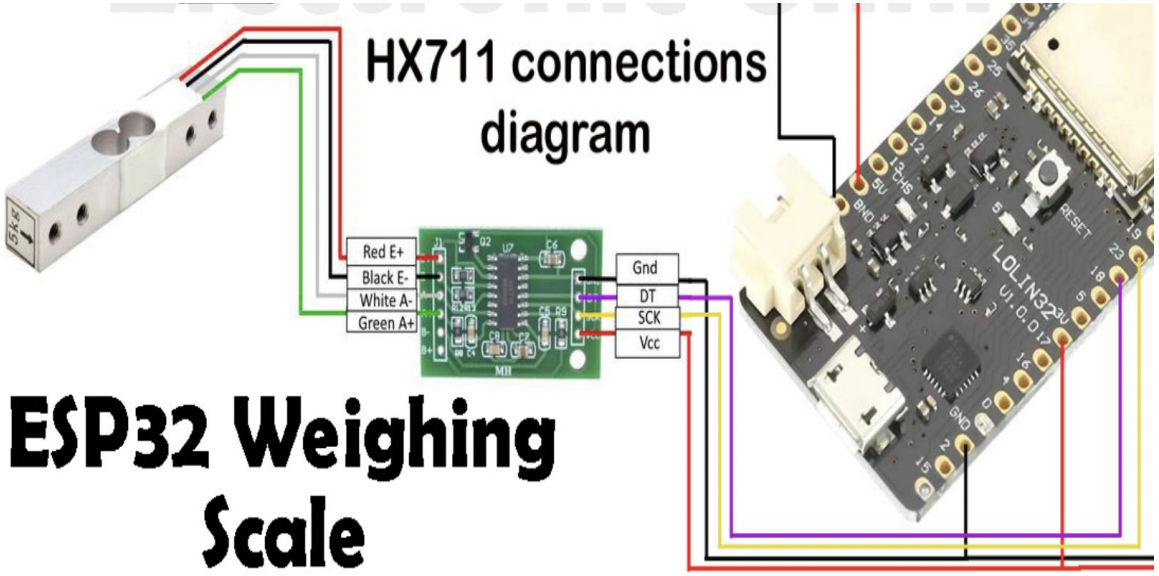
HX711 > ESP32:

GND > GND

Vcc > 3v3 (3v)

DT > D35 (35)

SCK > D27 (27)



DATASHEET

ESP 32 to LED Display (1)

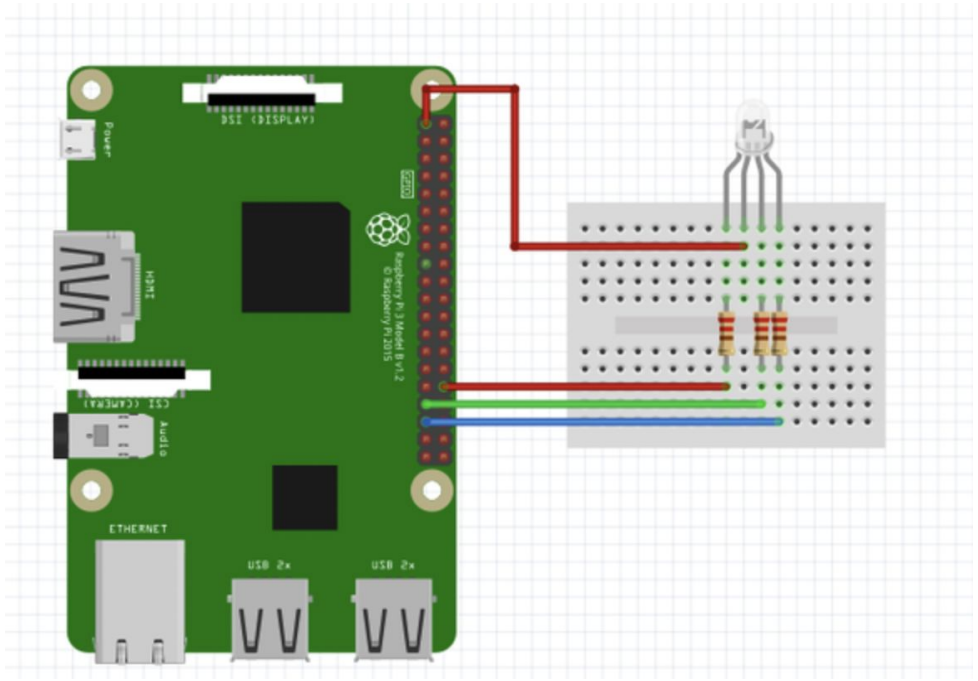
RGB Level: RGB > ESP32:

4 (or 5) > 12 (RED)
12 (or 13) > 14 (GREEN)
9 (or 10) > 13 (BLUE)
6 (or 7) > GND (0 V)

LED Display level Pins (1) and (2):

Left to Right = 1 to 16 inclusive (pin no.)

Pin Jack at Bottom, held horizontally (single PCB)



Resistors between 12,13,14 (from ESP32) and 8, 10, 11 (RGB LED) respectively: RGB Level --- 220 Ohm

ESP 32 to LED Display (2)

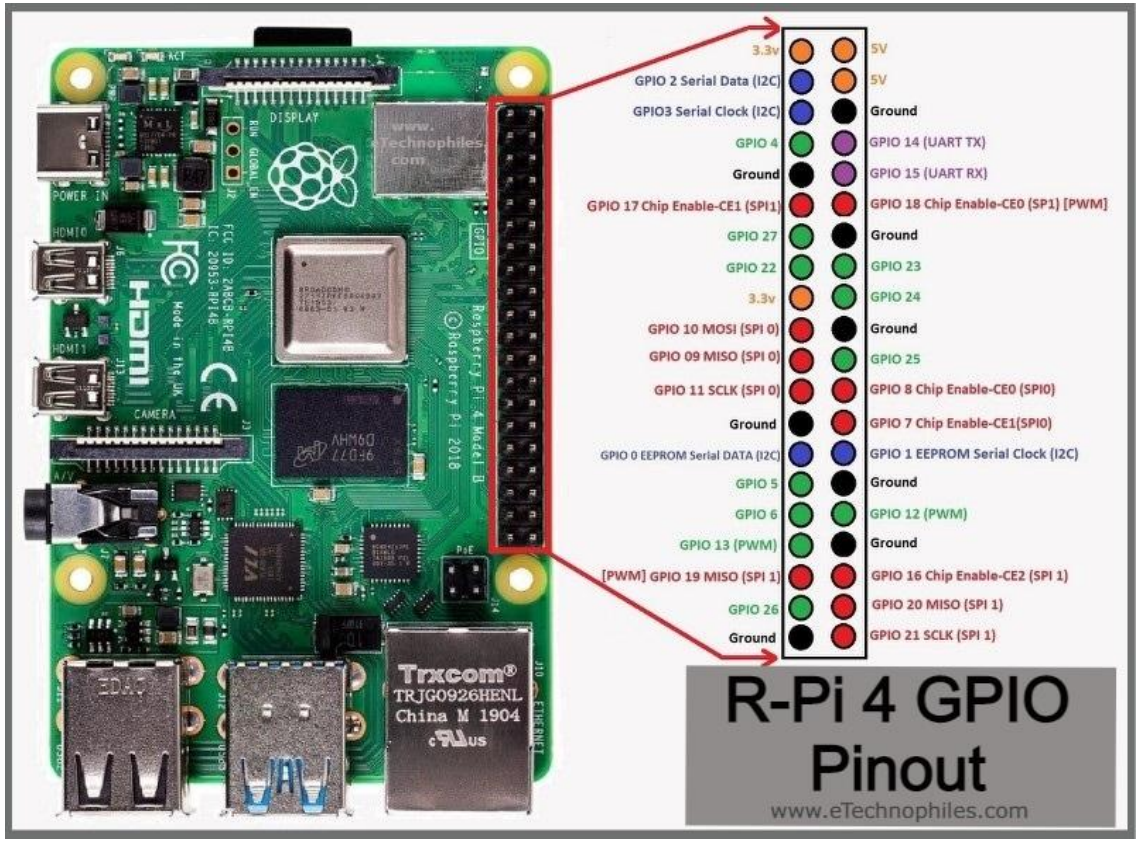
Multi (4) Level: 4-LED > ESP32:

16 > 12 (LED 1)
11 (or 12) > 13 (LED 2)
7 (or 8 or 9) > 14 (LED 3)
4 (or 5) > 18 (LED 4)
1 (or 2) > GND (0 V)

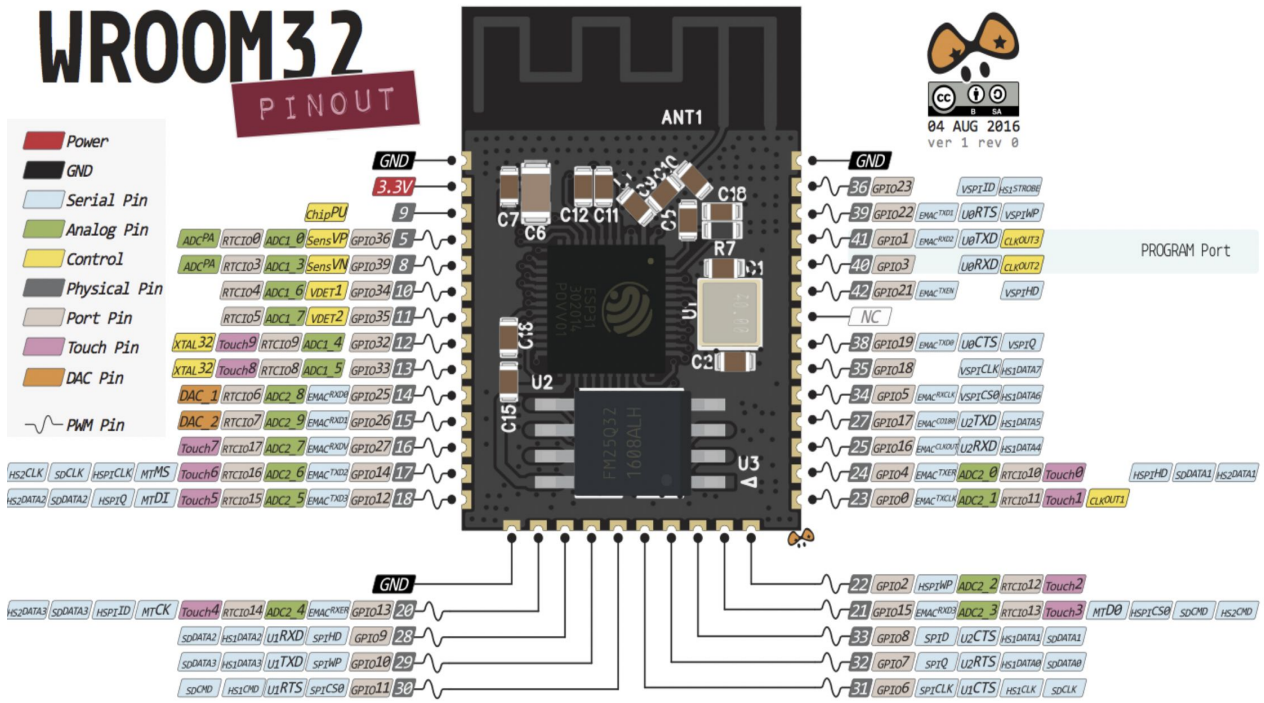
Resistors between 12,13,14, 18 (from ESP32) and 3, 7, 11, 14 (4-Level LED) respectively: 4 LED Level --- 330 Ohm

DATASHEET

Microcontroller Pinouts



RPi4 (Left) Pinout



ESP32 (Right) Pinout