Raspberry Pi Pinout

3v3 Power	1	2	5v Power
GPIO 2 (I2C1 SDA)	3	4	5v Power
GPIO 3 (I2C1 SCL)	5	6	Ground
GPIO 4 (GPCLK0)	7	8	GPIO 14 (UART TX)
Ground	9	10	GPIO 15 (UART RX)
GPIO 17	11	12	GPIO 18 (PCM CLK)
GPIO 27	13	14	Ground
GPIO 22	15	**16**	**GPIO 23 (Data)**
3v3 Power	17	**18**	**GPIO 24 (Clock)**
GPIO 10 (SPI0 MOSI)	19	20	Ground
GPIO 9 (SPI0 MISO)	21	22	GPIO 25
GPIO 11 (SPI0 SCLK)	23	24	GPIO 8 (SPI0 CE0)
Ground	25	26	GPIO 7 (SPI0 CE1)
GPIO 0 (EEPROM SDA)	27	28	GPIO 1 (EEPROM SCL)
GPIO 5	29	30	Ground
GPIO 6	31	32	GPIO 12 (PWM0)
GPIO 13 (PWM1)	33	34	Ground
GPIO 19 (PCM FS)	35	36	GPIO 16
GPIO 26	37	38	GPIO 20 (PCM DIN)
Ground	39	40	GPIO 21 (PCM DOUT)

Legend

Orientate your Pi with the GPIO on the right and the HDMI port(s) on the left.

GPIO (General Purpose IO)
SPI (Serial Peripheral Interface)
I^{2}C (Inter-integrated Circuit)
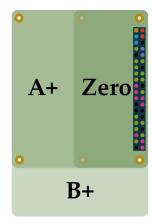UART (Universal Asynchronous Receiver/Transmitter)
PCM (Pulse Code Modulation)
Ground
5v (Power)
3.3v (Power)

5v Power   WiringPi   Ground   SDIO   I2C   3v3 Power
DPI   1-WIRE   SPI   JTAG   PWM   GPCLK   UART   PCM

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Blinkt!

Blinkt! is a super slimline Raspberry Pi Add-on board with 8 APA-102 LEDs.

5V Power

Blinkt! does not require *both* Physical Pin 2 and Physical Pin 4:

- Physical Pin 4 is used for 5v power on all Blinkt! boards since 2018
- Physical Pin 2 was used for 5v power on first run Blinkt! boards prior to 2018

If your Blinkt! doesn't work with one, try swapping over to the other or - if all else fails - wiring both.

Installing

To get started you can use the one-line product installer:

```
1.   curl -sS https://get.pimoroni.com/blinkt | bash
```

Code

```
1.   from blinkt import set_pixel, show
2.   from random import randint
3.   from time import sleep
4.
5.   while True:
6.       for pixel in range(8):
7.           r = randint(0, 255)
8.           g = randint(0, 255)
9.           b = randint(0, 255)
10.          set_pixel(pixel, r, g, b)
11.          show()
12.          sleep(0.1)
```

Details

- Made by Pimoroni
- 40 pin header
- Needs 5v power
- Uses 2 GPIO pins
- More Information
- GitHub Repository
- Buy Now