

Orange Pi Zero 2W GPIO Header Pinout

| | | | | | | | | | |
|-----------|--------|------|----|---|---|----|------|--------|----------|
| | | 3.3V | 1 | o | o | 2 | 5V | | |
| I2C1 SDA | GPIO2 | PI8 | 3 | o | o | 4 | 5V | | |
| I2C1 SCL | GPIO3 | PI7 | 5 | o | o | 6 | GND | | |
| PWM2 | GPIO4 | PI13 | 7 | o | o | 8 | PH0 | GPIO14 | TXD0 |
| | | GND | 9 | o | o | 10 | PH1 | GPIO15 | RXD0 |
| | GPIO17 | PH2 | 11 | o | o | 12 | PI1 | GPIO18 | |
| | GPIO27 | PH3 | 13 | o | o | 14 | GND | | |
| | GPIO22 | PI5 | 15 | o | o | 16 | PI14 | GPIO23 | PWM3 |
| | | 3.3V | 17 | o | o | 18 | PH4 | GPIO24 | |
| SPI0 MOSI | GPIO10 | PH7 | 19 | o | o | 20 | GND | | |
| SPI0 MISO | GPIO9 | PH8 | 21 | o | o | 22 | PI6 | GPIO25 | |
| SPI0 SCLK | GPIO11 | PH6 | 23 | o | o | 24 | PH5 | GPIO8 | SPI0 CE0 |
| | | GND | 25 | o | o | 26 | PH9 | GPIO7 | SPI0 CE1 |
| I2C2 SDA | GPIO0 | PI10 | 27 | o | o | 28 | PI9 | GPIO1 | I2C2 SCL |
| | GPIO5 | PI0 | 29 | o | o | 30 | GND | | |
| | GPIO6 | PI15 | 31 | o | o | 32 | PI11 | GPIO12 | PWM0 |
| PWM1 | GPIO13 | PI12 | 33 | o | o | 34 | GND | | |
| | GPIO19 | PI2 | 35 | o | o | 36 | PC12 | GPIO16 | |
| | GPIO26 | PI16 | 37 | o | o | 38 | PI4 | GPIO20 | |
| | | GND | 39 | o | o | 40 | PI3 | GPIO21 | |

Column 1, 2, 5, and 6 pin names match Raspberry Pi GPIO header pin names.
Column 3 and 4 pin names match the Orange Pi Zero 2W schematic diagram.

Revised 27 December 2024