

| PCB Connector Pinouts | | | |
|-----------------------|-------|--|--|
| CONNECTOR | PIN # | DESCRIPTION | COMMENTS |
| J1 | 1 | +12V | 2A max current capability from 12V sources (J1 & J4 together) |
| | 2 | GND | |
| J2 | 1 | +5V | 2A max current capability from 5V sources (J2 & J5 together) |
| | 2 | GND | |
| J3 | 1 | +3V3 | 1A max current capability from 3.3V sources (J3 & J6 together) |
| | 2 | GND | |
| J4 | 1 | +12V | 2A max current capability from 12V sources (J1 & J4 together) |
| | 2 | GND | |
| J5 | 1 | +5V | 2A max current capability from 5V sources (J2 & J5 together) |
| | 2 | GND | |
| J6 | 1 | +3V3 | 1A max current capability from 3.3V sources (J3 & J6 together) |
| | 2 | GND | |
| J7 | 1 | GPIO 12 | PWM0 |
| | 2 | GND | |
| J8 | 1 | GPIO 13 | PWM1 |
| | 2 | GND | |
| J9 | 1 | GPIO 26 | General purpose I/O |
| | 2 | GND | |
| J10 | 1 | +12V | Positive power terminal |
| | 2 | GND | Negative power terminal |
| J12 | 1 | GND | |
| | 2 | +3V3 | 5V-to-3V3 regulator output |
| | 3 | GPIO 2 | SDA |
| | 4 | GPIO 3 | SCL |
| J13 | 1 | Reset | J13 is connected to switch S2: press S2 to reset Raspberry Pi |
| | 2 | | |
| J14 | 1 | GPIO 2 | SDA, do not use simultaneously with J12 |
| | 2 | GPIO 3 | SCL, do not use simultaneously with J12 |
| | 3 | GPIO 17 | spi1 CS1 |
| | 4 | GND | |
| | 5 | GPIO 10 | MOSI |
| | 6 | GPIO 9 | MISO |
| | 7 | GPIO 11 | SCLK |
| | 8 | GND | |
| | 9 | GPIO 19 | PWM1, miso1 |
| | 10 | GND | |
| J15 | 1 | GPIO 14 | TXD |
| | 2 | GPIO 15 | RXD |
| | 3 | GPIO 18 | PWM0, spi1 CS0 |
| | 4 | GND | |
| | 5 | GPIO 8 | SPI CS0 |
| | 6 | GPIO 7 | SPI CS1 |
| | 7 | GPIO 16 | spi1 CS2 |
| | 8 | GPIO 20 | mosi1 |
| | 9 | GPIO 21 | sclk1 |
| | 10 | GND | |
| J16 | 1 | +5V from Pi | Must remove jumper to connector J16 when Raspberry Pi is connected to USB |
| | 2 | +5V from regulator | |
| J11 | 1-40 | 40-pin GPIO (same pinouts as Raspberry Pi) | Raspberry Pi mounts to connector J11 |
| P1 | | | Raspberry Pi breakouts, do not use simultaneously with J7, J8, J9, J12, J14, J15 |

Note: LED1, LED2, and LED3 indicate 12V, 5V, and 3.3V, respectively.

