

KALI HEADERS PIN OUT DETAILS

| KALI 40 Pin Bottom connector (RPI compatible) | | | | | |
|---|-----------------------|-----|-----|---------------|----------|
| RPI | Sparky signal | PIN | PIN | Sparky signal | RPI |
| NC | NC | 1 | 2 | DCIN +5V | DC +5V |
| SDA1-I2C | I2C -2 SDA | 3 | 4 | DCIN +5V | DC +5V |
| SCL1-I2C | I2C -2 SCLK | 5 | 6 | GND | GND |
| GPIO4 | GPIOB14 | 7 | 8 | UART5_TX | UART_TX |
| GND | GND | 9 | 10 | UART5_RX | UART_RX |
| GPIO17 | GPIOB15 | 11 | 12 | I2S_BCLK0 | I2S_BCLK |
| GPIO27 | GPIOB16 | 13 | 14 | GND | GND |
| GPIO22 | GPIOB17 | 15 | 16 | GPIOB31 | GPIO23 |
| NC | NC | 17 | 18 | GPIOB30 | GPIO24 |
| SPI_MOSI | I2C-3 SDA/SPIO_MOSI | 19 | 20 | GND | GND |
| SPI_MISO | SPIO_MISO | 21 | 22 | GPIOB12 | GPIO25 |
| SPI_CLK | I2C -3 SCLK/SPIO_SCLK | 23 | 24 | SPIO_SS | GPIO8 |
| GND | GND | 25 | 26 | SPDIF | GPIO7 |
| ID_SD | I2C-1 SDA | 27 | 28 | I2C -1 SCLK | ID_SC |
| GPIO5 | TP | 29 | 30 | GND | GND |
| GPIO6 | GPIOB18 | 31 | 32 | GPIOB3 | GPIO12 |
| GPIO13 | GPIOB4 | 33 | 34 | GND | GND |
| I2S_LRCLK | I2S_LRCLK0_2 | 35 | 36 | GPIOB13 | GPIO16 |
| GPIO26 | GPIOB19 | 37 | 38 | I2S_DIN_2 | I2S_DIN |
| GND | GND | 39 | 40 | I2S_DOUT_2 | I2S_DOUT |

| KALI 40 Pin TOP connector (RPI compatible) | | | | | |
|--|-----------------------|-----|-----|---------------|-----------|
| RPI | Sparky signal | PIN | PIN | Sparky signal | RPI |
| NC | NC | 1 | 2 | DCIN +5V | DC +5V |
| SDA1-I2C | I2C -2 SDA | 3 | 4 | DCIN +5V | DC +5V |
| SCL1-I2C | I2C -2 SCLK | 5 | 6 | GND | GND |
| GPIO4 | GPIOB14 | 7 | 8 | UART5_TX | UART_TX |
| GND | GND | 9 | 10 | UART5_RX | UART_RX |
| GPIO17 | GPIOB15 | 11 | 12 | KALI_BCLK | KALI_BCLK |
| GPIO27 | GPIOB16 | 13 | 14 | GND | GND |
| GPIO22 | GPIOB17 | 15 | 16 | GPIOB31 | GPIO23 |
| NC | NC | 17 | 18 | GPIOB30 | GPIO24 |
| SPI_MOSI | I2C-3 SDA/SPIO_MOSI | 19 | 20 | GND | GND |
| SPI_MISO | SPIO_MISO | 21 | 22 | GPIOB12 | GPIO25 |
| SPI_CLK | I2C -3 SCLK/SPIO_SCLK | 23 | 24 | SPIO_SS | GPIO8 |
| GND | GND | 25 | 26 | SPDIF | GPIO7 |
| ID_SD | I2C-1 SDA | 27 | 28 | I2C -1 SCLK | ID_SC |
| KALI_MCLK | KALI_MCLK | 29 | 30 | GND | GND |
| GPIO6 | GPIOB18 | 31 | 32 | GPIOB3 | GPIO12 |
| GPIO13 | GPIOB4 | 33 | 34 | GND | GND |
| KALI_LRCLK | KALI_LRCLK | 35 | 36 | GPIOB13 | GPIO16 |
| GPIO26 | GPIOB19 | 37 | 38 | I2S_DIN_2 | I2S_DIN |
| GND | GND | 39 | 40 | KALI_DOUT | KALI_DOUT |

