Graphical user interface

Description automatically generated

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **GPIO** | **Input** | **Output** | **Notes** | **Used as** | **Type** | **Pin** |
| 0 | pulled up | OK | outputs PWM signal at boot |  |  |  |
| 1 | TX pin | OK | debug output at boot |  |  |  |
| 2 | OK | OK | connected to on-board LED | IR | RMT | 2 |
| 3 | OK | RX pin | HIGH at boot |  |  |  |
| 4 | OK | OK |  |  |  |  |
| 5 | OK | OK | outputs PWM signal at boot | Trigger | GPIO | 5 |
| 6 | x | x | connected to the integrated SPI flash |  |  |  |
| 7 | x | x | connected to the integrated SPI flash |  |  |  |
| 8 | x | x | connected to the integrated SPI flash |  |  |  |
| 9 | x | x | connected to the integrated SPI flash |  |  |  |
| 10 | x | x | connected to the integrated SPI flash |  |  |  |
| 11 | x | x | connected to the integrated SPI flash |  |  |  |
| 12 | OK | OK | boot fail if pulled high | Laser | GPIO | 12 |
| 13 | OK | OK |  | RGB Pixels 1 (Gun) | RMT | 13 |
| 14 | OK | OK | outputs PWM signal at boot | PowerUp-Button | GPIO | 14 |
| 15 | OK | OK | outputs PWM signal at boot | RFID Reader SPI | Reset | 15 |
| 16 | OK | OK |  | RGB Pixels 2 (Gun) | RMT | RX2 |
| 17 | OK | OK |  | RGB Pixels (Vest) | RMT | TX2 |
| 18 | OK | OK |  | Capacitive Touch  Display | I2C | 18 |
| 19 | OK | OK |  | Capacitive Touch  Display | I2C | 19 |
| 21 | OK | OK |  | SD Card  RFID Reader SPI | SPI1\_MISO | 21 |
| 22 | OK | OK |  | SD Card  RFID Reader SPI | SPI1\_MOSI | 22 |
| 23 | OK | OK |  | SD Card  RFID Reader SPI | SPI1\_CLOCK | 23 |
| 25 | OK | OK |  | SD Card | ChipSelect | 25 |
| 26 | OK | OK |  | Speaker | I2S\_BCK | 26 |
| 27 | OK | OK |  | Speaker | I2S\_Data | 27 |
| 32 | OK | OK |  | Speaker | I2S\_WS | 32 |
| 33 | OK | OK |  | RFID Reader SPI | ChipSelect | 33 |
| 34 | OK |  | input only | IR Receiver 1 (Gun) |  |  |
| 35 | OK |  | input only | IR Receiver 2 (Gun) |  |  |
| 36 | OK |  | input only | IR Receiver 1 (Front) |  |  |
| 39 | OK |  | input only | IR Receiver 2 (Back) |  |  |

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|  |  |  |
|  |  | SD Card - SPI1 CLOCK |
| IR Receiver 1 – Front (RMT) |  | SD Card - SPI1 MOSI |
| IR Receiver 2 – Back (RMT) |  |  |
| IR Receiver 1 – Gun (RMT) |  |  |
| IR Receiver 2 – Gun (RMT) |  | SD Card - SPI1 MISO |
| Speaker - I2S\_WS |  | Capacitive Touch (I2C) |
| RFID - Chip Select |  | Capacitive Touch (I2C) |
| SD Card – Chip Select |  | Trigger (GPIO) |
| Speaker - I2S\_BCK |  | RGB Pixels 1 – Vest (RMT) |
| Speaker – I2S\_Data |  | RGB Pixels 2 – Gun (RMT) |
| PowerUp-Button (GPIO) |  |  |
| Laser (GPIO) |  | IR (RMT) |
| RGB Pixels 1 – Gun (RMT) |  | RFID Reset |
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