Pin Assignments (picture of pin functions on following page)

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| --- | --- | --- | --- |
| Arduino Pin | Type | Function |  |
| 1 | D1/TX | RS232:TX |  |
| 2 | D0/RX | RS232:TX |  |
| 3 | RESET |  |  |
| 4 | GND |  |  |
| 5 | D2 | Interrupt |  |
| 6 | D3 | PWM, Interrupt | Neopixel (D1 - D8 are controlled with this pin) |
| 7 | D4 | I2C/SDA | Slide Switch (S1) |
| 8 | D5 | PWM, I2C/DCL | Slide Switch (S2) |
| 9 | D6 | PWM | Slide Switch (S3) |
| 10 | D7 |  | Slide Switch (S4) |
| 11 | D8 |  |  |
| 12 | D9 | PWM | Tactile Switch (S5) |
| 13 | D10 | PWM, SPI/SS | Tactile Switch (S6) |
| 14 | D11 | PWM, SPI/MOSI | Tactile Switch (S7) |
| 15 | D12 | SPI/MISO | Tactile Switch (S8) |
| 16 | D13 | LED, SPI/SCK | Tactile Switch (S9) |
| 17 | 3V3 | 3.3 Volts | Powers IR receiver (IR1) |
| 18 | AREF | Analog reference voltage |  |
| 19 | A0 | Also digital | LCD (pin D7) |
| 20 | A1 | Also digital | LCD (pin D6) |
| 21 | A2 | Also digital | LCD (pin D5) |
| 22 | A3 | Also digital | LCD (pin D4) |
| 23 | A4 | Also digital | LCD (enable pin) |
| 24 | A5 | Also digital | LCD (reset pin) |
| 25 | A6 |  | IR receiver (IR1) |
| 26 | A7 |  | Buzzer (B1) |
| 27 | 5V |  | Powers neopixels, LCD screen, slide switches, tactile switches (D1 - D8, U2, S1 - S9) |
| 28 | RESET |  |  |
| 29 | GND |  |  |
| 30 | VIN | Supply voltage in (7-12 Volts DC) | Connects to 9V battery |

