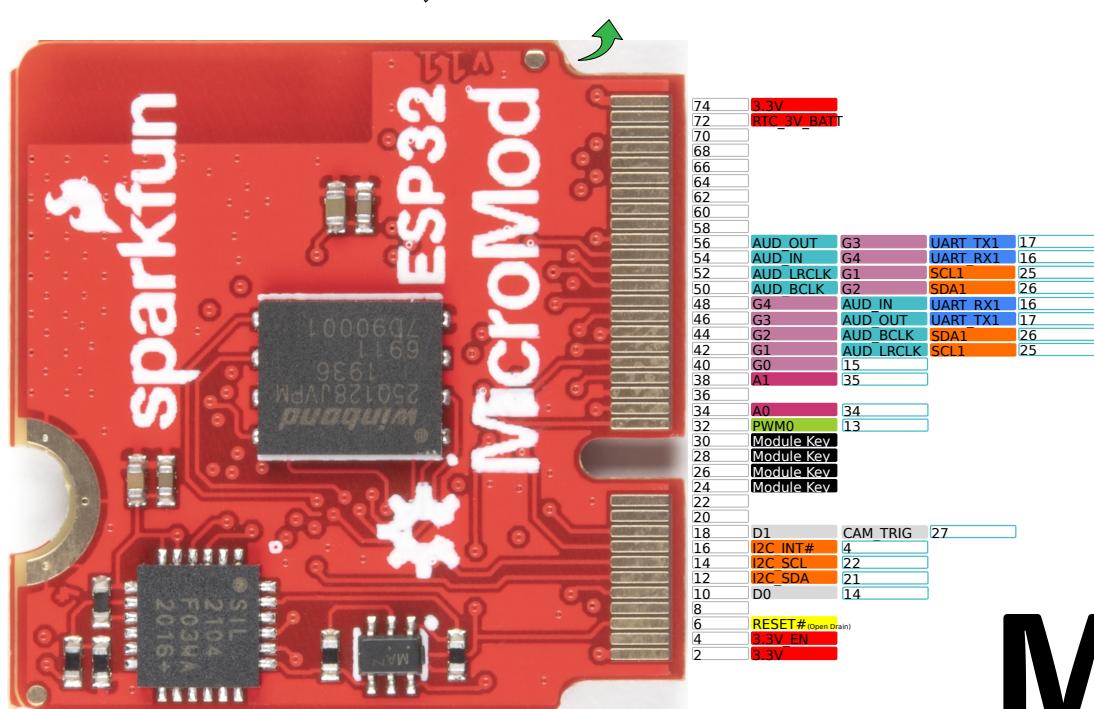


MicroMod ESP32 Processor Pinout (WRL-16781)

| | |
|------------|----|
| GND | 75 |
| G5 | 73 |
| G6 | 71 |
| | 69 |
| | 67 |
| | 65 |
| | 63 |
| | 55 |
| SPI CS# | 55 |
| I2C SCL1 | 53 |
| I2C SDA1 | 51 |
| BATT VIN | 49 |
| PWM1 | 47 |
| | 45 |
| | 43 |
| | 41 |
| GND | 39 |
| | 37 |
| | 35 |
| | 33 |
| Module Key | 31 |
| Module Key | 29 |
| Module Key | 27 |
| Module Key | 25 |
| | 23 |
| | 21 |
| AUD IN | G4 |
| AUD OUT | G3 |
| UART_RX1 | 19 |
| UART_TX1 | 17 |
| | 15 |
| | 13 |
| BOOT | 11 |
| USB_VIN | 9 |
| GND | 7 |
| USB_D- | 5 |
| USB_D+ | 3 |
| GND | 1 |



| | | | |
|-------------|---------|--------|-------------|
| Pin Number | Power | GND | Control |
| Digital Pin | ADC | PWM | Serial UART |
| I2C | SPI | CAN | USB |
| SWD | Audio | Camera | General/Bus |
| SDIO | Arduino | | |

Power
Operating: 2.7 to 3.6V
500uA sleep current (hibernation)
Maximum current: 3.3V

ESP32
Dual-core Tensilica LX6 microprocessor
Clock frequency: Up to 240MHz
520kB internal SRAM
16MB Flash Storage

Wireless
Integrated 802.11 B/G/N WiFi transceiver
Integrated dual-mode Bluetooth (classic and BLE)

LED
Stat (D2):Blue

Other
Hardware accelerated encryption (AES, SHA2, ECC, RSA-4096)
10-electrode capacitive touch support

Dedicated GPIO
A0 - ESP32 pin 34, MicroMod pad 34 (Input Only!)
A1 - ESP32 pin 35, MicroMod pad 38 (Input Only!)
D0 - ESP32 pin 14, MicroMod pad 10
D1 - ESP32 pin 27, MicroMod pad 18
PWM0 - ESP32 pin 13, MicroMod pad 32
PWM1 - ESP32 pin 12, MicroMod pad 47
Primary SPI - ESP32 Pins 5/18/23/19, MicroMod Pins 55/57/59/61
Primary I2C - ESP32 Pins 21/22, MicroMod Pins 12/14
I2C Interrupt - ESP32 Pin 4, MicroMod Pin 16

General Purpose/Shared GPIO
G0 - GPIO pin 15, MicroMod pad 40
G1 - GPIO pin 25, MicroMod pad 42 - Shared with I2S bus and secondary I2C bus.
G2 - GPIO pin 26, MicroMod pad 44 - Shared with I2S bus and secondary I2C bus.
G3 - GPIO pin 17, MicroMod pad 46 - Shared with I2S bus and secondary UART.
G4 - GPIO pin 16, MicroMod pad 48 - Shared with I2S bus and secondary UART.
G5 - GPIO pin 32, MicroMod pad 73 - Shared with 32KHz RTC crystal.
G6 - GPIO pin 33, MicroMod pad 71 - Shared with 32KHz RTC crystal.

M MicroMod

