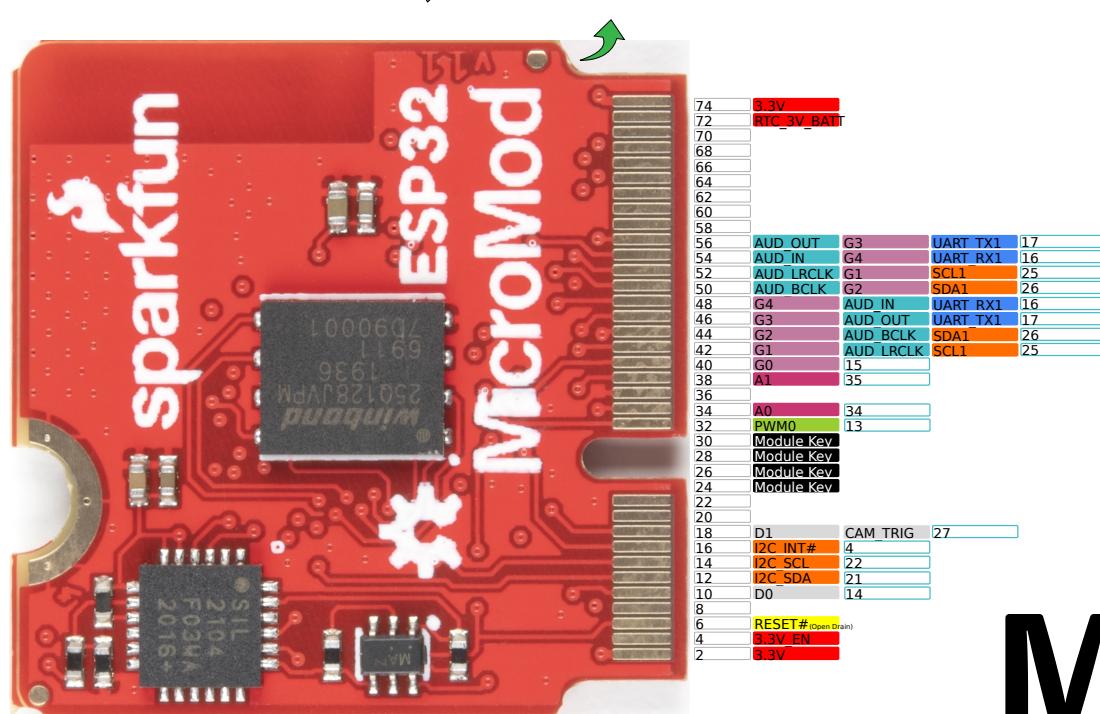
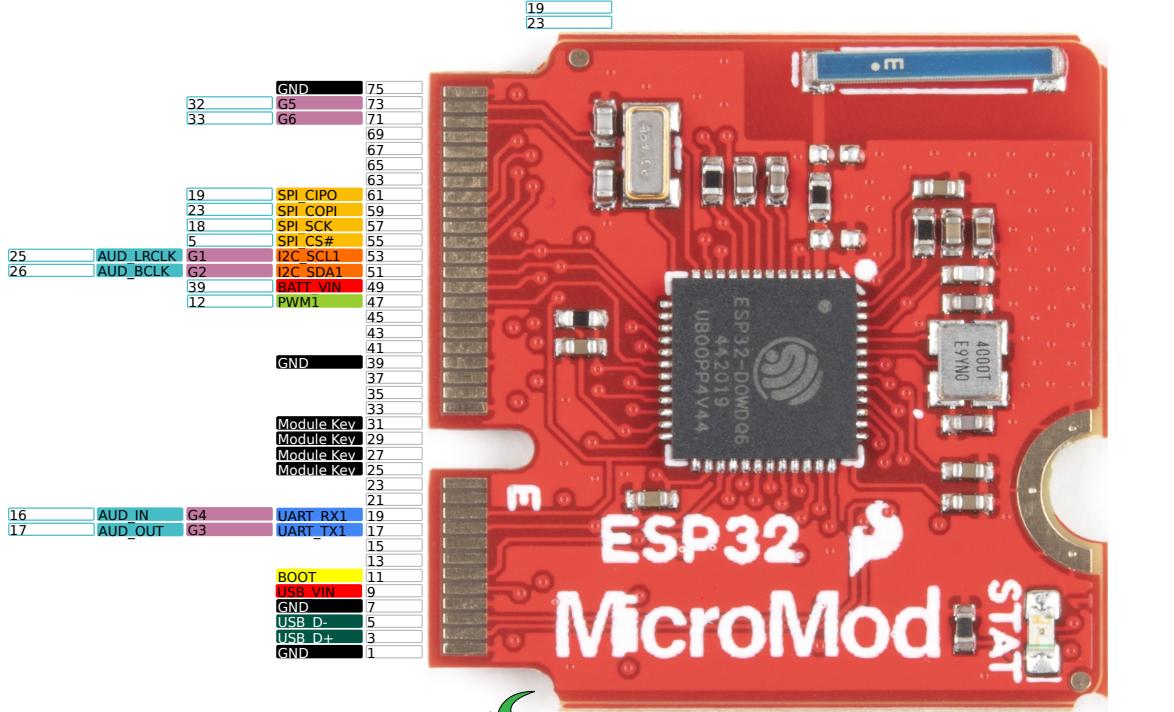


# MicroMod ESP32 Processor Pinout (WRL-16781)



Pin Number	Power	GND	Control
Digital Pin	ADC	PWM	Serial UART
I <sup>2</sup> C	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 I<sup>2</sup>C - ESP32 Pins 21/22, MicroMod Pins 12/14  
I<sup>2</sup>C 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 I<sup>2</sup>S bus and secondary I<sup>2</sup>C bus.  
G2 - GPIO pin 26, MicroMod pad 44 - Shared with I<sup>2</sup>S bus and secondary I<sup>2</sup>C bus.  
G3 - GPIO pin 17, MicroMod pad 46 - Shared with I<sup>2</sup>S bus and secondary UART.  
G4 - GPIO pin 16, MicroMod pad 48 - Shared with I<sup>2</sup>S 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

