M5Stack Tab5 PINOUT

Pinout reference · ESP32-P4

GPIO · safe · use with care · serial, USB · PWM capable

ADC · touch · RTC · 32 kHz crystal · SPI · strapping · on-board feature · default function · power · ground · EN / reset

1 USB1 – host, GH 1.25

USB1_D+	
USB1_D−	
GND	
5VIN	

2 PORT A – HY2.0-4P

54	GPIO54	PORT_A	ADC2_CHANNEL5
53	GPIO53	PORT_A	ADC2_CHANNEL4
	5V		
	GND		

3 ExtPort1 – inner row

	HVIN			
	GND			
	3V3			
1	GPIO1	EXT_PORT1	LP_GPIO1	XTAL_32K_P
50	GPIO50	EXT_PORT1	ADC2_CHANNEL1	

3 ExtPort1 – edge row

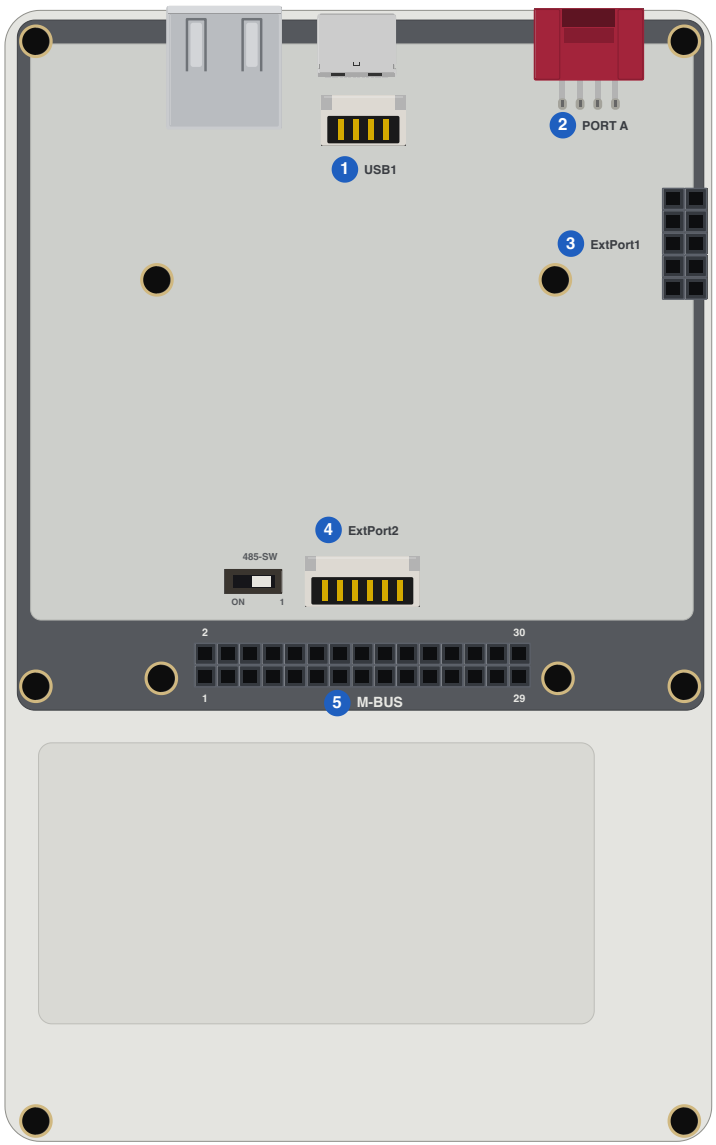
	GND			
	GND			
	5V			
0	GPIO0	EXT_PORT1	LP_GPIO0	XTAL_32K_N
49	GPIO49	EXT_PORT1	ADC2_CHANNEL0	

4 ExtPort2 – RS-485 + I2C

GND			
HVIN			
485A			
485B			
SDA	GPIO31		31
SCL	GPIO32		32

5 M-BUS – odd pins 1–29

GND				
GND				
GND				
ADC1_CHANNEL2	MOSI	GPIO18		18
ADC1_CHANNEL3	MISO	GPIO19		19
TOUCH_CHANNEL4	LP_GPIO5	SCK	GPIO5	5
BOOT		RXD0	GPIO38	38
TOUCH_CHANNEL6	SPI2_CS	LP_GPIO7	PC_RX	GPIO7	7
			SDA	GPIO31	31
TOUCH_CHANNEL2	LP_GPIO3	M5_BUS	GPIO3		3
TOUCH_CHANNEL1	LP_GPIO2	M5_BUS	GPIO2		2
		M5_BUS	GPIO47		47
HVIN					
HVIN					
HVIN					



5 M-BUS – even pins 2–30

16	GPIO16	M5_BUS	ADC1_CHANNEL0	
17	GPIO17	M5_BUS	ADC1_CHANNEL1	
	EN			
45	GPIO45	M5_BUS		
52	GPIO52	PB_OUT	ADC2_CHANNEL3	
	3V3			
37	GPIO37	TXD0	BOOT	
6	GPIO6	PC_TX	LP_GPIO6	SPI2_HOLD	TOUCH_CHANNEL5
32	GPIO32	SCL		
4	GPIO4	M5_BUS	LP_GPIO4	TOUCH_CHANNEL3
48	GPIO48	M5_BUS		
35	GPIO35	M5_BUS	BOOT	
51	GPIO51	M5_BUS	ADC2_CHANNEL2	
	5V			
	BAT			

Pin functions from the ESP32-P4 Series Datasheet v0.7. Strapping pins per Espressif.

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