MYSX ESP12 MCU Board

Board with ESP12 module. Powered from 3.3v rail.
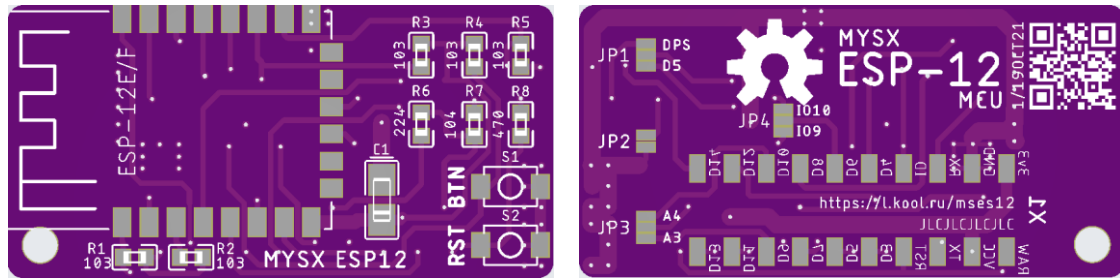
Pin	Name	IO	Function
1	Vraw		NC
2	+3.3V	VCC	VCC
3	VCCio		VCC
4	GND	GND	Ground
5	MYSX_D1_DFM	1	Digital IO (USART TX (data from MCU))
6	MYSX_D2_DTM	3	Digital IO (USART RX (data to MCU))
7	MYSX_RST	RST	Reset
8	MYSX_LEGACY_ID	0	Boot mode . Pull-up to VCC with 10kOhm
9	MYSX_D3_INT	0	Digital IO, Pull-up to VCC with 10kOhm.
10	MYSX_D4_INT	2	Digital IO, Pull-up to VCC with 10kOhm.
11	MYSX_D5_PWM	16	Digital IO, Connect via JP1
12	MYSX_D6_PWM	10/9	Digital IO, Connect via JP4 to IO10 or IO9
13	MYSX_D7_SCL	5	Digital IO, I2C SCL
14	MYSX_D8_SDA	4	Digital IO, I2C SDA
15	MYSX_D9_A3	ADC	Analog input. Configure with JP2 and JP3
16	MYSX_D10_A4	ADC	Analog input. Configure with JP2 and JP3
17	MYSX_D11_MOSI	13	Digital IO, SPI MOSI
18	MYSX_D12_MISO	12	Digital IO, SPI MISO
19	MYSX_D13_SCK	14	Digital IO, SPI SCK
20	MYSX_D14_CS	15	Digital IO, SPI CS Pull-down

Software PWM allows in all I/O pins. Interrupts supports in any GPIO, except GPIO16.

JP1 Connect IO16 to Deep sleep or MYSX D5

JP2 Enable voltage divider

JP3 Connect A0 to MYSX A3 or A4

JP4 Connect D6 to IO10 or IO9

More information:

MySX connector on https://www.mysensors.org/hardware/mysx
GitHub https://l.kool.ru/mses12
https://randomnerdtutorials.com/esp8266-pinout-reference-gpios/