

SparkFun Blynk Board - ESP8266 (WRL-13794)

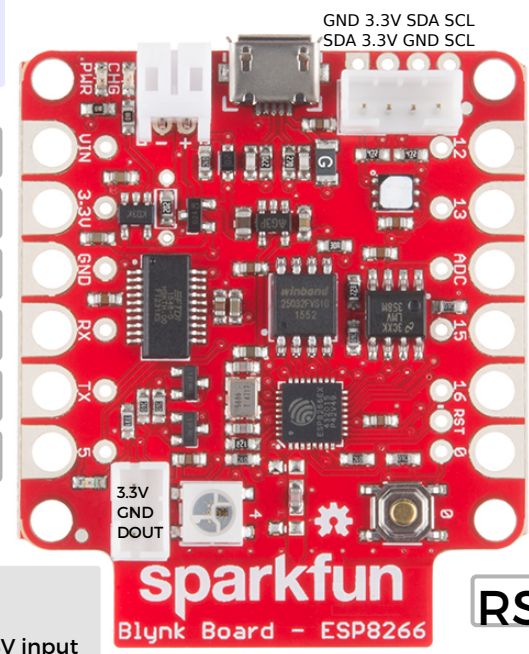
Name	ADC	Status LEDs Yellow: Charging Red: Power Blue: D5 User LED
Power	Serial	
Ground	Pullup/down	
Control	Misc	
Arduino		

3.3V	SDA	D2	SDA
GND	SCL	D14	SCL

Jumpers

I2CPU	CHG RES/R5
WS2812VCC	PWR LED

VIN	VIN	
3.3V	3.3V	
GND	GND	
RX	D8	RX
TX	D7	TX
LED	D5	5



12	D12	MISO
13	D13	MOSI
ADC	A0	ADC
15	D15	10k pulldown
16	D16	XPD
0	D0	10k pullup



Button

Si7021 Sensor	WS2812	ADC
Address: 0x40	on pin 4	0-3.3V input
SJ4 can be cleared to remove pullup resistors	SJ3 can be cut to avoid powering a WS2812 string (on 3-pin JST connector)	10-bit

RST Reset

Button D0 10k pullup Button

Power

USB, Lipo battery on 2 pin JST or Vin
 Vin: 3V-6V
 VCC: 3.3V at 600mA
 SJ2 can be cut to disable the power LED
 Max 12mA per I/O pin

Charging Circuit

SJ1 can be cut and R5 populated to change charge rate
 Preprogrammed charge rate: 500mA
 Single Cell Lipo charging
 Yellow LED when charging

Connectors

2-pin JST: battery connector
 3-pin JST: to attach a string of WS2812 LEDs
 4-pin JST: to connect a cable to various I2C sensor boards
 4-pin I2C 0.1 header: to connect various I2C sensors
 MicroB USB: programming and charging
 I/O pins with 2 sized holes (for soldering or alligator clips)
I/O
 Button: pin 0 (active low)
 Blue LED: pin 5 / WS2812 LED: pin4
 Si7021 Temperature and Humidity Sensor (Address: 0x40)
 I2C headers (0.1 and JST)

Provisioning your Blynk board without a QR code

1. Create a Blynk Project
2. Select "SparkFun Blynk Board" and name project
3. Tap to copy or email authentication token
4. Create project
- 5a. Provisioning using a computer or phone browser
 - a. Connect computer or phone to Blynk Wifi network
 - b. Point browser to 192.168.4.1
 - c. Select Wifi Network and Blynk token (from step 3)
- 5b. Provisioning over USB
 - a. Open a serial terminal window (9600 baud)
 - b. Press 'h' for help
 - c. Press 's' to scan network, select number/letter for network and enter password
 - d. Press 'b' to enter Blynk token (from step 3)

Blynk.cc (available for Android and iOS)
 Sparkfun.com/blynk for tutorials and getting started info

