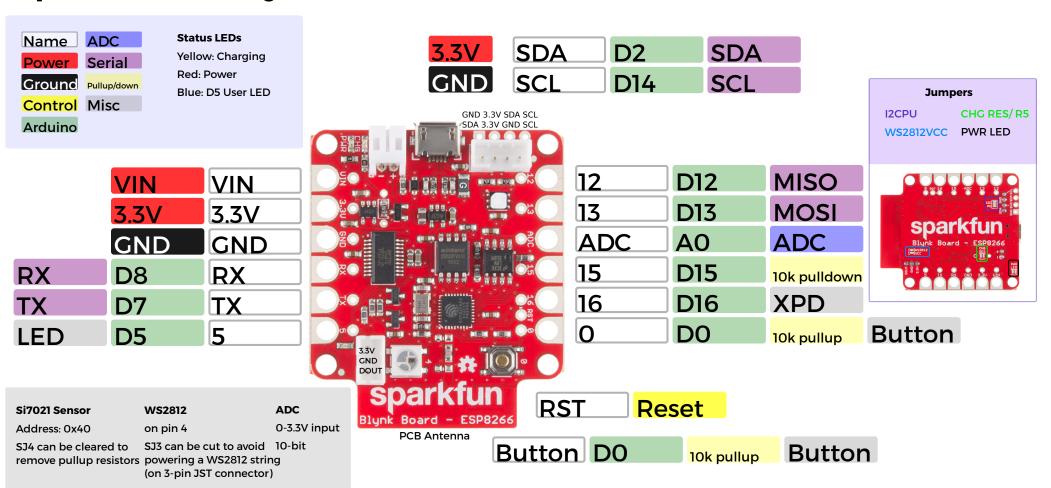
# SparkFun Blynk Board - ESP8266 (WRL-13794)



### 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)

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

