

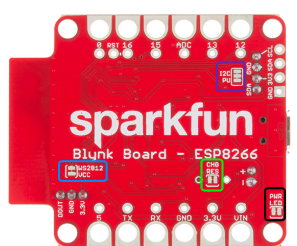
SparkFun Blynk Board - ESP8266 (WRL-13794)

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

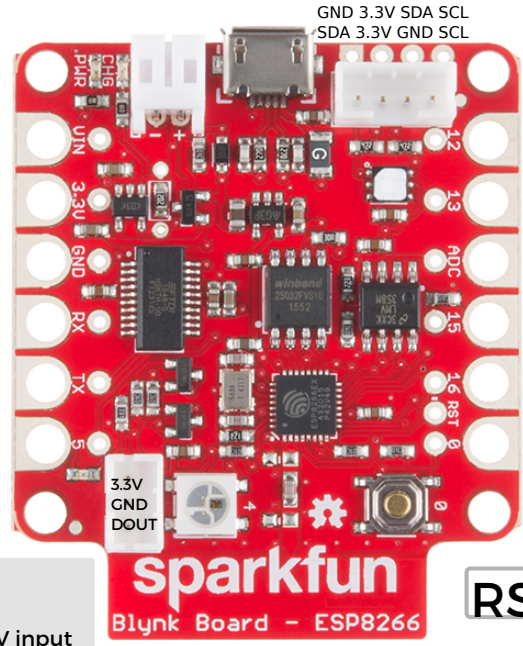
3.3V	SDA	D2	SDA
GND	SCL	D14	SCL

Jumpers

I2CPU CHG RES/R5
 WS2812VCC PWR LED



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



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

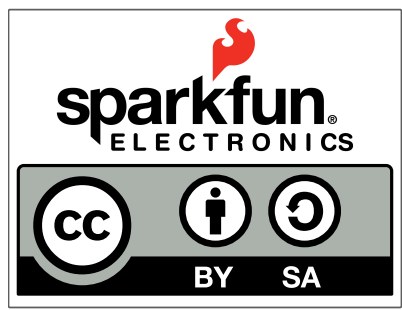
2-pin JST: battery connector
 3-pin JST: to attach a string of WS2812 LEDs
 4-pin JST: to connect a cable to various I2C sensor boards
 4-pin I2C 0.1 header: to connect various I2C sensors
 MicroB USB: programming and charging
 I/O pins with 2 sized holes (for soldering or alligator clips)
 I/O

Button: pin 0 (active low)
 Blue LED: pin 5 / WS2812 LED: pin 4
 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



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