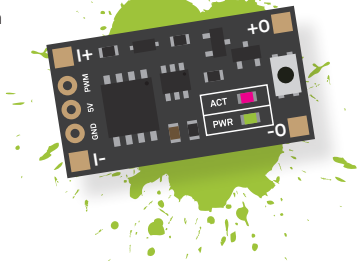


# RC LIGHTS CTRL

# RGB

## FEATURES

- PWM controlled power switch
- WS2812B LED driver
- 3A switchable load
- 5-20V input
- Three powering options (selectable via jumper)
- **Matek 5V 1.5A BEC**
- **WS2812B strip with 16 LEDs**

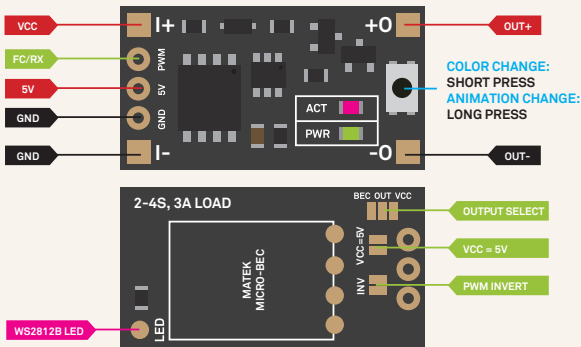


**DIY RC**  
HANDMADE RC ELECTRONICS

  
open source  
hardware

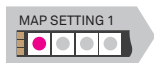
**MADE IN GERMANY** 

DIMENSIONS: 26x14mm

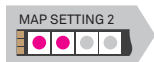


## WS2812B MAPPING CHANGE

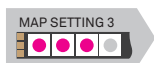
Press button for 3 sec. on power up, change the mapping mode with a short press and wait until the LEDs light up green, then powercycle normally.



**COLORS:** red, green, blue, cyan, yellow, pink  
**ANIMATION MODES:** static, wipe, larsen scanner



**COLORS (LED 1-8):** red, green, blue, cyan, yellow, pink  
**ANIMATION MODES:** static, wipe, larsen scanner  
**POSITION LIGHTS:** 2x white strobe, green+strobe, red+strobe

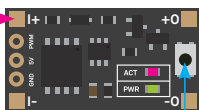


**COLORS:** red/green, yellow/cyan, orange/purple, red/blue, pink/green, white/white  
**ANIMATION MODES:** static, inner-wipe, siren

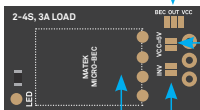
## Powering options



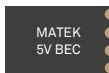
Never connect the lipo to I+ pad if the „VCC=5V“ jumper is closed!!!



WS2812B  
MODE/COLOR  
BUTTON



SOLDER IT IN  
PLACE IF NEEDED



### 2. OUTPUT CONFIG JUMPER

- $VCC+OUT = VCC$  on the output pad > lipo voltage (will be 5V if you bridged the VCC=5V jumper!!!)
- $BEC+OUT =$  Internal BEC output (5V @ 1.5A). Lipo must be connected to I+/- pads

### 1. VCC = 5V JUMPER

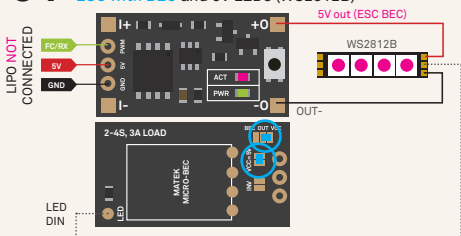
If you want to power the LEDs with the servo cable from the receiver, FC or ESC (do the output jumper next)

### 3. PWM INVERSION JUMPER

- if **not connected**:  
1000-1600us > LIGHTS OFF,  
1600-2000us > LIGHTS ON
- if **connected**:  
1000-1600us > LIGHTS ON,  
1600-2000us > LIGHTS OFF

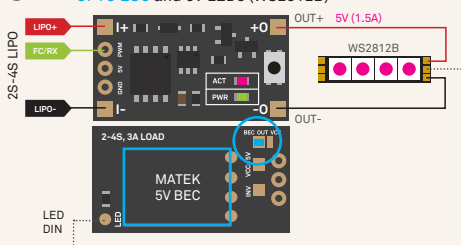
## 01

### ESC with BEC and 5V LEDs (WS2812B)



## 02

### OPTO ESC and 5V LEDs (WS2812B)



## 03

### Mixed voltage LEDs

