

Light up the dark with custom patterns or get visual feedback using the Crazyflie LED-ring deck. Featuring 12 strong RGB LEDs facing downwards, you can create custom patterns in firmware that you control. Two additional strong front facing LEDs that can be switched on and off, act as headlights.



## 1. Introduction

Use the LED-ring deck to create visual effects or to give feedback from the firmware or sensors. The LEDs can be programmed individually or pre-configured patterns/functions can be selected.

## 2. Features

- DC-DC step-up/down gives stable LED light independent of battery voltage
- Create custom patterns using the Crazyflie 2.X firmware
- 12 RGB LED modules facing downwards
- 2 strong LEDs facing forward
- Automatic detection of expansion board using 1-wire memory

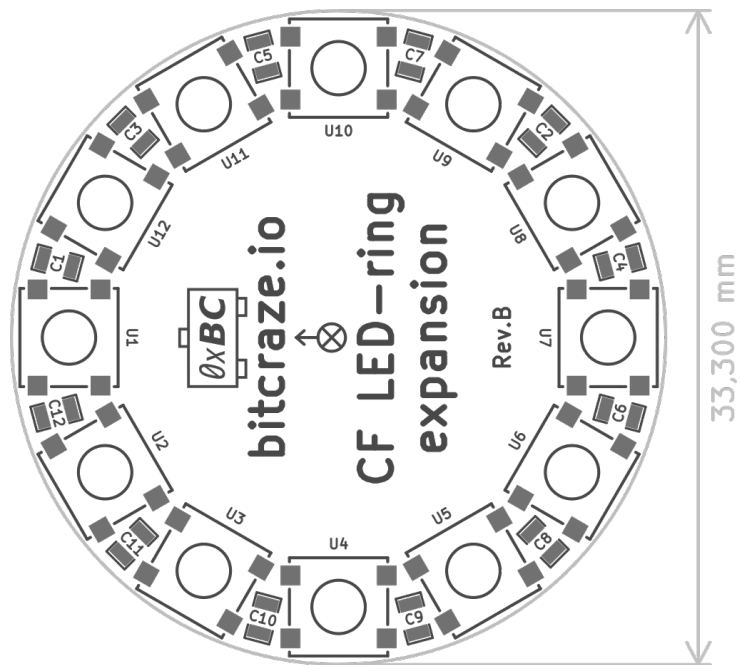
## 3. Electrical specification

- DC-DC step-up/down gives up to 1A at 3.8V from input between 2-5.5V
- 12 independently addressable RGB LED modules facing downwards (W2812B)
- 2 strong white LEDs facing forward, emitting more than 1800 mcd
- 1-wire memory for automatic expansion board detection
- Typical power consumption: 330mA @ 5.0V and 680mA @ 3.0V

## 4. Mechanical specifications

- Weight: 3.3g
- Size (WxHxD): 33x33x5.5mm
- Designed for mounting under the Crazyflie facing downwards

## 5. Mechanical drawing



## 6. Package contents

- 1 x LED-ring deck

## 7. Errata

## 8. Hardware revisions

Revision	Comment
B	Initial release

## 9. History

Version	Comment	Date
1	Initial release	2020-04-01