

BOB-13884 LED Driver Breakout Board

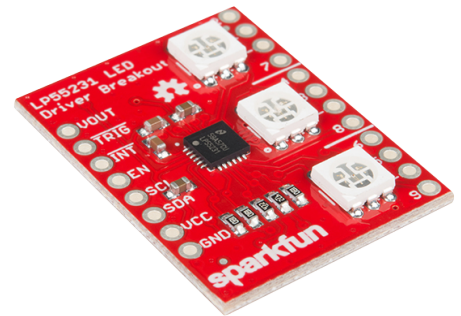
Product Overview

11-15-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun BOB-13884 LP55231 LED Driver Breakout Board is a self-contained solution for developing and deploying the nine-channel I²C LED controller. This breakout board is equipped primarily with just the LP55231 LED controller IC and plus three RGB LEDs. The LP55231 LED Driver Breakout board features pads and jumpers for replacing the onboard LEDs with external ones, and configuring the I²C bus. This allows for daisy-chaining up to four LP55231s.



This breakout board drives LEDs using Pulse Width Modulation (PWM), so it's well-suited for variable intensity and color-mixing applications. Originally designed to be used in mobile device and automotive applications, the LEDs aren't meant to be overwhelmingly bright, and have some unique qualities.

First, there is an onboard charge-pump power supply, which allows the board to drive LEDs with a forward voltage that's higher than the power supply voltage. Second, the LP55231 has an LED offload engine. This is an LED-specific microcontroller which allows it to perform LED operations without requiring assistance from the host microcontroller. The MCU can independently perform LED operations like chases, blinks, and fades.

Features

- Self-contained solution for developing and deploying the nine-channel I²C LED controller
- Equipped primarily with the LP55231 LED controller IC and three RGB LEDs
- LP55231 board features pads and jumpers for replacing the onboard LEDs with external ones
- Drives LEDs using Pulse Width Modulation (PWM)

Mouser Part Number(s)

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-bob-13884-breakout-board/>