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SparkFun LED Driver Breakout - LP55231

BOB-13884 ROHS ✔

DESCRIPTION   DOCUMENTS

The SparkFun LP55231 LED Driver Breakout is a self-contained solution for developing and deploying the nine-channel I^{2}C LED controller. Remarkably simple, the breakout is equipped primarily with just the LP55231 LED controller IC, plus three RGB LEDs. It also features pads and jumpers for replacing the onboard LEDs with external ones, and configuring the I^{2}C bus, which allows you to daisy-chain up to four LP55231s. This breakout drives the LEDs using Pulse Width Modulation (PWM), so it is well-suited for variable intensity and color-mixing applications!

Originally designed to be used in mobile device and automotive applications, it isn't meant to be overwhelmingly bright, and it has some unique qualities. First, there is an onboard charge-pump power supply, which allows it 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. It can independently perform LED operations like chases, blinks and fades.

GET STARTED WITH THE LP55231 BREAKOUT GUIDE

Tags

BREAKOUT   LED   LED DRIVER   LP55231

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3D Download: Sketchup, STL, Blender

SparkFun LED Driver Breakout - LP55231 Product Help and Resources

TUTORIALS   VIDEOS   SKILLS NEEDED

LP55231 Breakout Board Hookup Guide
NOVEMBER 3, 2016

Get to know the LP55231 9-channel LED driver., and learn how to configure and program this surprisingly flexible IC.

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In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

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