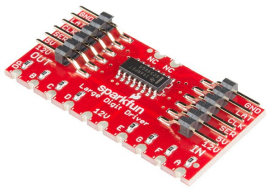

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SparkFun Large Digit Driver

WIG-13279 ROHS

3

DESCRIPTION | FEATURES | DOCUMENTS

The SparkFun Large Digit Driver is a chainable controller backpack that can be soldered directly to the back of our large 6.5" 7-segment displays. Large numerical displays are a great addition to any project where you want to be able to see information at a distance. Scorekeepers and lap timers would be a great application for large 7-segment LED displays.

The SparkFun Large Digit Driver can easily be attached to the back of the 7-segment display by soldering all 10 castellations pins at the bottom of the board as well as the two additional castellations at the top. Keep in mind that the Large Digit Driver requires both 12V for the LEDs and 5V for the on-board TPIC6C596 IC. Each driver is equipped with six input pins and six output pins, these make the driver capable of being chained together. The input/output pins are listed as GND (Ground), LAT (Latch), CLK (Clock), SER (Serial), 5V (Power for the driver IC), and 12V (Power for the 7-segment display). We actually used the SparkFun Large Digit Driver in our AVC Battle-Bot Arena to display times and scores!

Tags

CASTELLATED | COMPONENT | LED | LED DRIVER

SparkFun Large Digit Driver Product Help and Resources

TUTORIALS | VIDEOS | SUPPORT TIPS | SKILLS NEEDED

Large Digit Driver Hookup Guide

JUNE 25, 2015

Getting started guide for the Large Digit display driver board. This tutorial explains how to solder the module (backpack) onto the back of the large 7-segment LED display and run example code from an Arduino.

COMMENTS 35 | REVIEWS 3

Customer Reviews

4.3 out of 5

Based on 3 ratings:

5 star		2
4 star		0
3 star		1
2 star		0
1 star		0

Currently viewing all customer reviews.

Won't work on power-up

about 10 months ago by cjbaar verified purchaser

This seems to be a workable driver chip for the large 7-segment displays. However, the enable pin is hard-wired, so most of the time when powering on the unit, all of the segments are lit. Also, when powering on, they appear to "lock up" the arduino until the reset button is pressed. I have tried adding delays of several seconds on on startup, and isolating the 5V supply (not using the arduino 5V out), but they still require a reset. Lastly, because this is just a basic shift register and doesn't do PWM, the brightness of the segments varies depending on how many are lit at one time.

> Kansukee/f replied on May 18, 2017:
>
> Hello!
>
> Sorry to hear about the issues with getting the 7-segments working. Have you contacted our technical support department @ techsupport@sparkfun.com - they're usually great at getting devices working.

Works great

about 6 months ago by Darrell G verified purchaser

I used six of these with the giant 7-segment displays to make a giant clock for a large meeting hall. They do exactly what they are supposed to do.

START SOMETHING.

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SUBSCRIBE TO NEWSLETTER

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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