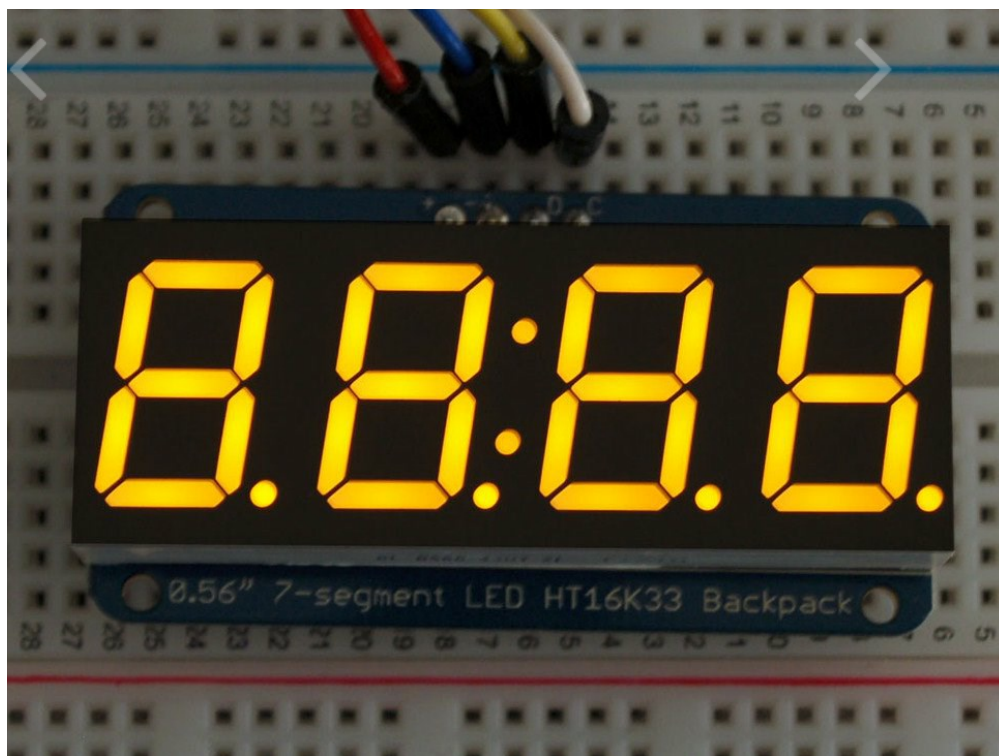


DESCRIPTION

What's better than a single LED? Lots of LEDs! A fun way to make a small display is to use an [8x8 matrix](#) or a [4-digit 7-segment display](#). Matrices like these are 'multiplexed' - so to control all the seven-segment LEDs you need 14 pins. That's a lot of pins, and there are [driver chips like the MAX7219](#) that can control a matrix for you but there's a lot of wiring to set up and they take up a ton of space. Here at Adafruit we feel your pain! After all, wouldn't it be awesome if you could control a matrix without tons of wiring? That's where these adorable LED matrix backpacks come in. We have them in two flavors - a [mini 8x8](#) and a [4-digit 0.56" 7-segment](#). They work perfectly with the matrices we stock in the Adafruit shop and make adding a bright little display trivial.

The matrices use a driver chip that does all the heavy lifting for you: They have a built in clock so they multiplex the display. They use constant-current drivers for ultra-bright, consistent color (the images above are photographed at the dimmest setting to avoid overloading our camera!), 1/16 step display dimming, all via a simple I2C interface. The backpacks come with address-selection jumpers so you can connect up to four mini 8x8's or eight 7-segments (or a combination, such as four mini 8x8's and four 7-segments, etc) on a single I2C bus.

Adafruit 0.56" 4-Digit 7-Segment Display w/I2C Backpack - Yellow

PRODUCT ID: 879

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[DESCRIPTION](#)[TECHNICAL DETAILS](#)

The product kit comes with:

- A fully tested and assembled LED backpack
- [Ultra-bright 4-digit 0.56" tall yellow seven-segment display](#)
- 4-pin header

A bit of soldering is required to attach the matrix onto the backpack but its very easy to do and only takes about 5 minutes.

Of course, in classic Adafruit fashion, [we also have a detailed tutorial showing you how to solder, wire and control the display](#). We even wrote [a very nice library for the backpacks so you can get running in under half an hour, displaying images on the matrix or numbers on the 7-segment](#). If you've been eyeing matrix displays but hesitated because of the complexity, his is the solution you've been looking for!

TECHNICAL DETAILS

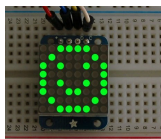
This board/chip uses I2C 7-bit address between 0x70-0x77, selectable with jumpers

- Backpack Dimensions: 27mm x 50mm x 4mm / 1.1" x 2" x 0.16"
- Backpack Weight: 5.3g
- 7-Segment Display Dimensions: 19mm x 50mm x 14mm / 0.75" x 2" x 0.56"
- 7-Segment Display Weight: 8.4g

[Datasheets](#), [schematic](#), [EagleCAD PCB files](#), and [Fritzing](#) available in the product tutorial



LEARN



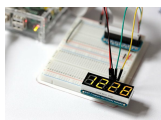
[Adafruit LED Backpacks](#)

Control small LED matrices with ease



[DeLorean Time Circuit](#)

Great Scott!



[Matrix and 7-Segment LED Backpack with the Raspberry Pi](#)



[Tap Tempo Trinket](#)

I got rhythm! I got music!



[LED Backpack Displays on Raspberry Pi and BeagleBone Black](#)

Use LED matrix, bar graph, and segment displays on your favorite small board computer.



[Collin's Lab: Binary & Hex](#)

Explore strange new ways to count in code.



[Arduino GPS Clock](#)

Build your own clock that sets itself with an Arduino, LED display, and GPS receiver!



[Raspberry Pi Physical Dashboard](#)

Build a dashboard to visualize data on I F D

displays and automotive gauges!



Trinket React Counter

Make a Physical Like Button



Personalized NextBus ESP8266 Transit Clock

Spend more time chillin' and less time at the bus stop



Mindfulness Clock OF DOOM

A grim reminder that time is priceless



CircuitPython Hardware: LED Backpacks & FeatherWings

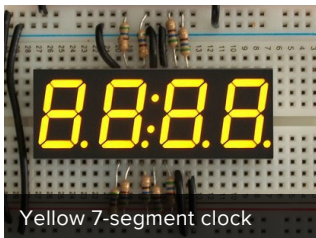
How to use LED Backpacks & FeatherWings with CircuitPython!



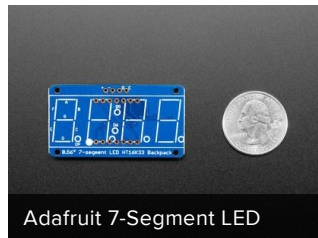
Fidget Spinner Tachometer

Measure the speed of a fidget spinner with Circuit Playground's light sensor!

MAY WE ALSO SUGGEST...



Yellow 7-segment clock



Adafruit 7-Segment LED



Adafruit 0.56" 4-Digit 7-



Adafruit 0.56" 4-Digit 7-



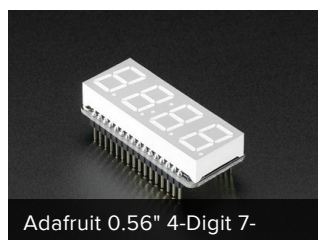
Adafruit 0.56" 4-Digit 7-



Adafruit 16x8 LED Matrix



Adafruit 0.56" 4-Digit 7-



Adafruit 0.56" 4-Digit 7-



Adafruit 0.56" 4-Digit 7-

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