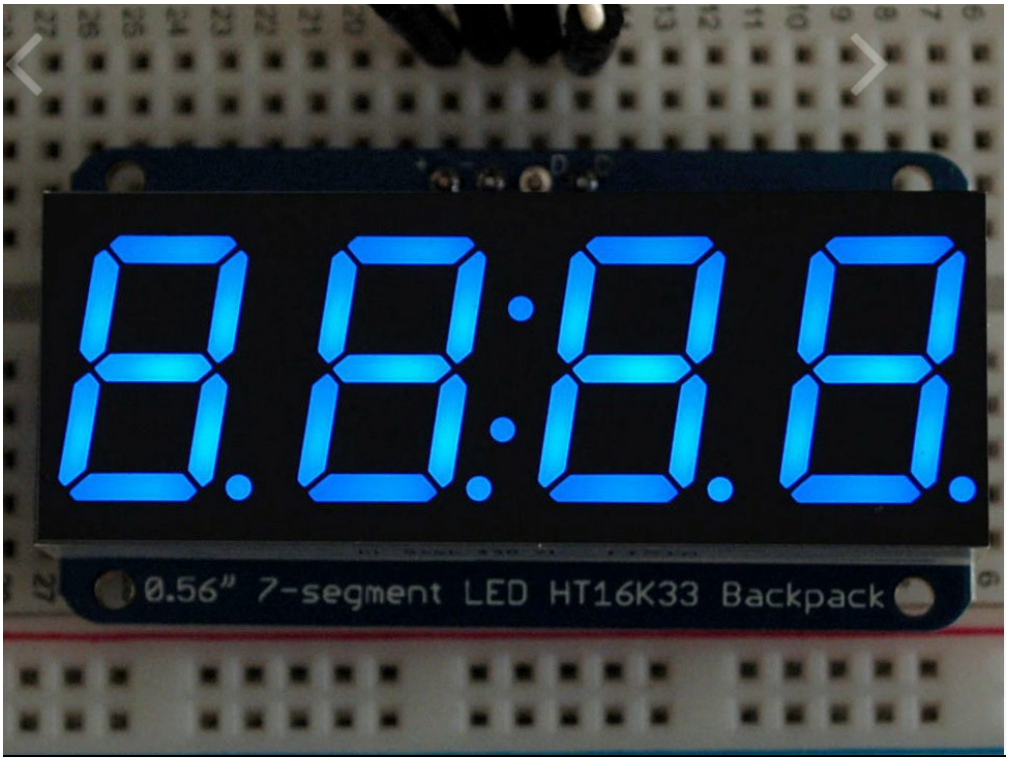

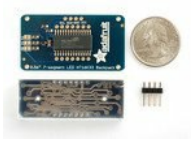

Adafruit 0.56" 4-Digit 7-Segment Display w/I2C Backpack - Blue

PRODUCT ID: 881

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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.

The product kit comes with:

- A fully tested and assembled LED backpack
- Ultra-bright 4-digit 0.56" tall blue 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

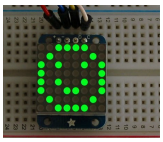
This board/chip uses I2C 7-bit address between 0x70-0x77, selectable with jumpers

- 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

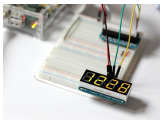
Datasheets, schematic, EagleCAD PCB files, and Fritzing available in the product tutorial

RoHS

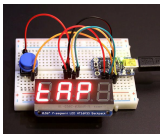
LEARN



Adafruit LED Backpacks
Control small LED matrices with ease

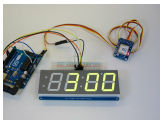


Matrix and 7-Segment LED Backpack with the Raspberry Pi

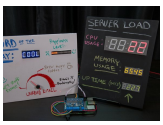


Tap Tempo Trinket
I got rhythm! I got music!

LED Backpack Displays on Raspberry Pi and BeagleBone Black
Use LED matrix, bar graph, and segment displays on your favorite small board computer.



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

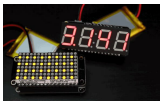


Raspberry Pi Physical Dashboard
Build a dashboard to visualize data on LED displays and automotive gauges!

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!

Pro Trinket Tachometer

Do you know how fast you were going?

MAY WE ALSO SUGGEST...

Adafruit 0.56" 4-Digit 7-

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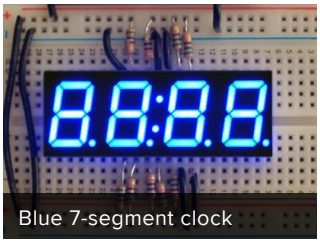
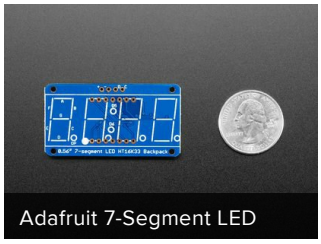
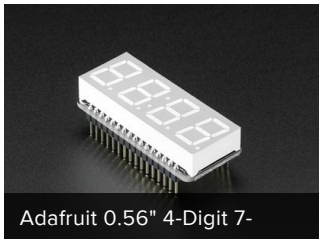
Adafruit 0.56" 4-Digit 7-



Blue 7-segment clock



Adafruit 7-Segment LED



Adafruit 0.56" 4-Digit 7-

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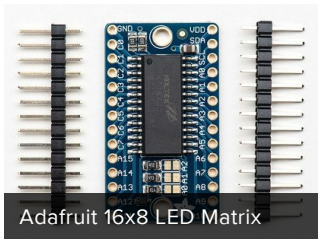
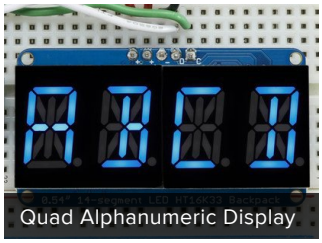


Adafruit 16x8 LED Matrix



Quad Alphanumeric Display

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"What I cannot create, I do not understand" - Richard Feynman