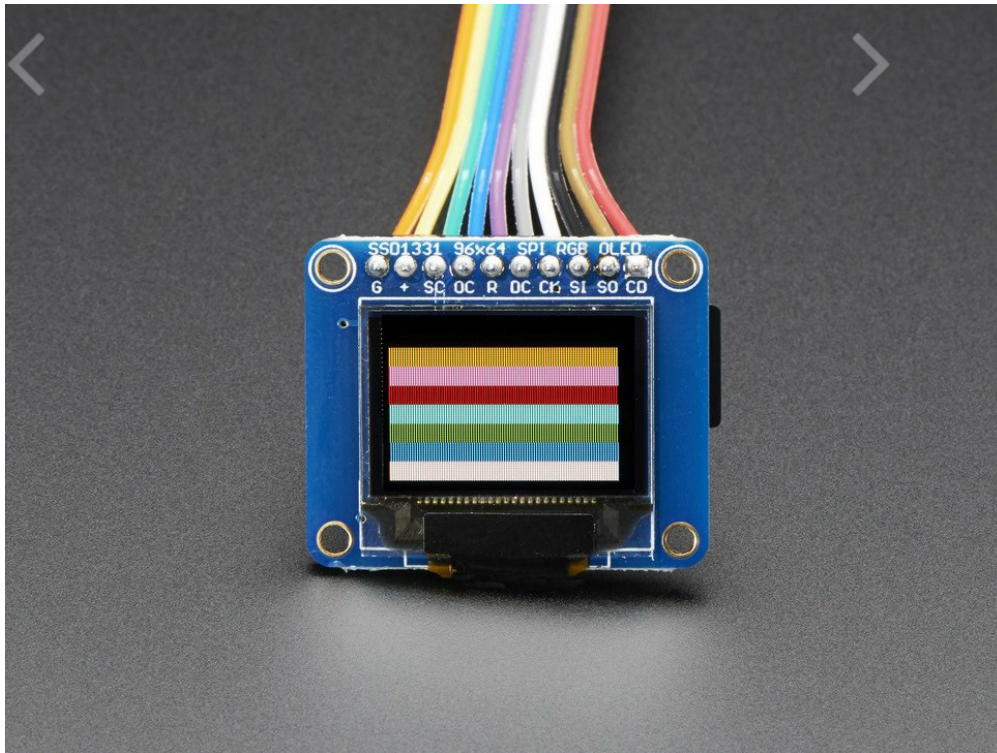




OLED Breakout Board - 16-bit Color 0.96" w/microSD holder

PRODUCT ID: 684

57 IN STOCK

1

ADD TO CART

1-9

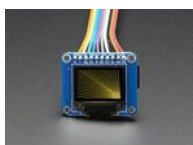
10-99

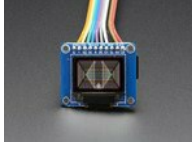
100+

ADD TO WISHLIST

[DESCRIPTION](#)

[TECHNICAL DETAILS](#)



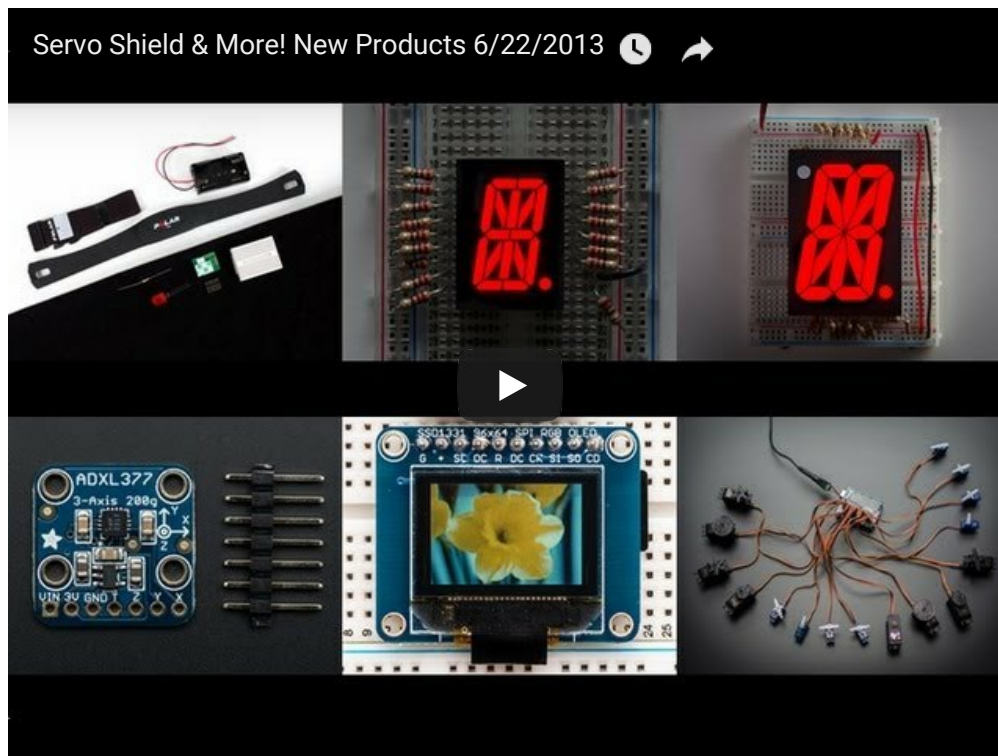


DESCRIPTION

We love our black and white monochrome displays but we also like to dabble with some color now and then. Our new 0.96" color OLED displays are perfect when you need an ultra-small display with vivid, high-contrast 16-bit color. The visible portion of the OLED measures 0.96" diagonal and contains 96x64 RGB pixels, each one made of red, green and blue OLEDs. Each pixel can be set with 16-bits of resolution for a large range of colors. Because the display uses OLEDs, there is no backlight, and the contrast is very high (black is really black). We picked this display for its excellent color, this is the nicest mini OLED we could find!

This OLED uses the SSD1331 driver chip, which manages the display. You can talk to the driver chip using either 4-wire write-only SPI (clock, data, chip select, data/command and an optional reset pin). Included on the fully assembled breakout is the OLED display and a small boost converter (required for providing 12V to the OLED) and a microSD card holder. **New!** We've updated this design to have built-in logic level shifting so you can use it with 3-5VDC power and logic levels. Our example code shows how to read a bitmap from the uSD card and display it all via SPI.

Of course, we wouldn't just leave you with a datasheet and a "good luck!" - [we've written a full open source graphics library that can draw pixels, lines, rectangles, circles, text and bitmaps as well as example code and a wiring tutorial](#). The code is written for Arduino but can be easily ported to your favorite microcontroller!



OLED Breakout Board - 16-bit Color 0.96" w/microSD holder (4:55)

TECHNICAL DETAILS

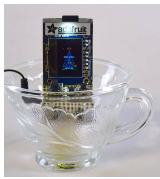
- [Datasheet](#), [Fritzing](#), and [EagleCAD PCB](#) [GitHub files available in product tutorial](#)
- 0.96" diagonal OLED, 16-bit color
- SPI interface
- 3.3-5V logic and power
- PCB size: 31.5mm x 35.5 x 5mm
- Display current draw is completely dependent on your usage: each OLED LED draws current when on so the more pixels you have lit, the more current is used. They tend to draw ~25mA or so in practice but for precise numbers you must measure the current in your usage circuit. This does not include the SD card, which is separate



LEARN



0.96" mini Color OLED
Mini color OLED displays



World's Smallest MAME
Arcade Cabinet
Tempest in a Teacup

MAY WE ALSO SUGGEST...



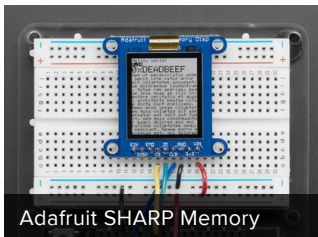
1.8" Color TFT LCD display



Monochrome 0.96" 128x64



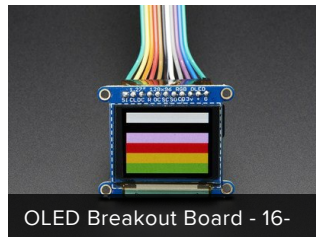
Monochrome 128x32 SPI



Adafruit SHARP Memory



Adafruit 1.44" Color TFT



OLED Breakout Board - 16-



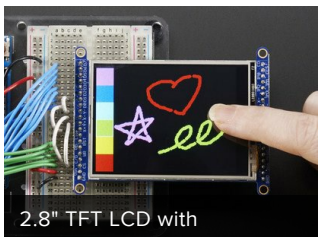
Monochrome 1.3" 128x64



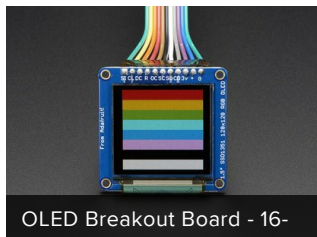
Adafruit PiOLED - 128x32



Monochrome 2.7" 128x64



2.8" TFT LCD with



OLED Breakout Board - 16-



Adafruit 128x64 OLED

DISTRIBUTORS [EXPAND TO SEE DISTRIBUTORS](#)

[CONTACT](#)

[SUPPORT](#)

[DISTRIBUTORS](#)

[EDUCATORS](#)

[JOBS](#)

Downloaded from [Arrow.com](#)

"I think there's something strangely musical about noise" - [Trent Reznor](#)

[FAQ](#)

[SHIPPING & RETURNS](#)

[TERMS OF SERVICE](#)

[PRIVACY & LEGAL](#)

[ABOUT US](#)

ENGINEERED IN NYC Adafruit®



4.9 ★★★★★
Google
Customer Reviews