



DESCRIPTION

This lovely little display breakout is the best way to add a small, colorful and bright display to any project. Since the display uses 4-wire SPI to communicate and has its own pixel-addressable frame buffer, it can be used with every kind of microcontroller. Even a very small one with low memory and few pins available!

The 1.44" display has 128x128 color pixels. Unlike the low cost "Nokia 6110" and similar LCD displays, which are CSTN type and thus have poor color and slow refresh, this display is a true TFT! The TFT driver (ST7735R) can display full 16-bit color using our library code.

The breakout has the TFT display soldered on (it uses a delicate flex-circuit connector) as well as a ultra-low-dropout 3.3V regulator and a 3/5V level shifter so you can use it with 3.3V or 5V power and logic. We also had a little space so we placed a microSD card holder so you can easily load full color bitmaps from a FAT16/FAT32 formatted microSD card. The microSD card is not included, [but you can pick one up here](#).

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!

TECHNICAL DETAILS

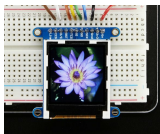
Specifications:

- 1.44" diagonal LCD TFT display
- 128x128 resolution, 18-bit (262,144) color
- 4 or 5 wire SPI digital interface
- Built-in microSD slot - uses 2 more digital lines
- 5V compatible! Use with 3.3V or 5V logic
- Onboard 3.3V @ 150mA LDO regulator
- 1 white LED backlight, transistor connected so you can PWM dim the backlight
- 1x12 header for easy breadboarding
- 4 x 0.9"/2mm mounting holes in corners
- Overall dimensions: 33mm x 45mm x 7mm / 1.3" x 1.8" x 0.3"
- Mounting Holes: 36mm x 36mm / 1.4" x 1.4"
- Weight: 10.6g
- Current draw is based on LED backlight usage: with full backlight draw is ~25mA

[Datasheets](#), [Fritzing object](#), [EagleCAD PCB files](#), etc in [tutorial](#)



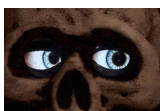
LEARN



[Adafruit 1.44" Color TFT with Micro SD Socket](#)
1.44" TFT Display with 128x128 Color Pixels



[Animated Scrolling "Mario Clouds" TFT Jewelry](#)
The peaceful background of your favorite game, now for you to wear

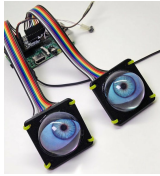


[Electronic Animated Eyes using Teensy 3.1/3.2](#)
Ride the express bus to the



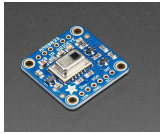
Purple People Eater

Build a one eyed, one
horned, flying purple people
eater!



Animated Snake Eyes Bonnet for Raspberry Pi

The world's most esoteric Pi
accessory?



Adafruit AMG8833 8x8 Thermal Camera Sensor

Build your own mini thermal
camera



JOY Controller for Adafruit Feather

Now that's a cute lookin'
gamepad



Hallowing Spirit Board

The not-so-mystifying oracle



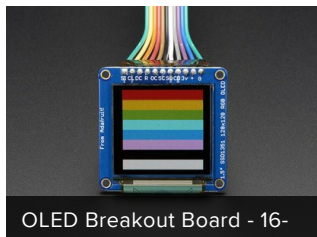
Hallowing Minotaur Maze

3D(ish) Graphics on a
Microcontroller

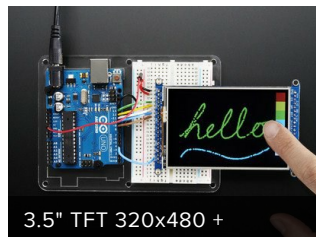
MAY WE ALSO SUGGEST...



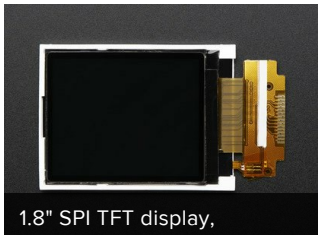
1.8" Color TFT LCD display



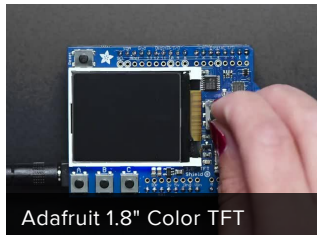
OLED Breakout Board - 16-



3.5" TFT 320x480 +



1.8" SPI TFT display,



Adafruit 1.8" Color TFT



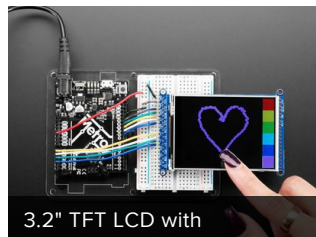
2.2" 18-bit color TFT LCD



OLED Breakout Board - 16-



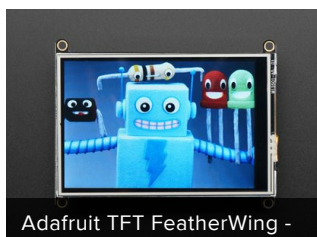
2.8" TFT LCD with



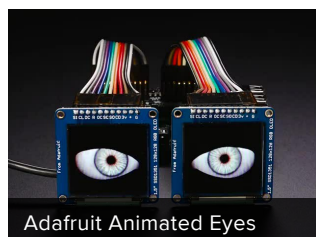
3.2" TFT LCD with



Convex Glass Lens with



Adafruit TFT FeatherWing -



Adafruit Animated Eyes

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"When you make a thing, a thing that is new, it is so complicated making it that it is bound to be ugly. But those that make it after you, they don't have to worry about making it. And they can make it pretty, and so everybody can like it when others make it after you" -
Pablo Picasso

ENGINEERED IN NYC Adafruit®



4.9 ★★★★★
Google
Customer Reviews