



## DESCRIPTION

Say hello to our **0.96" 160x80 Color TFT Display w/ MicroSD Card Breakout** – we think it's **T-F-Terrific!** It's the size of your thumbnail, with glorious 160x80 pixel color. This very very small display is only 0.96" diagonal, packed with RGB pixels, for making very small high-density displays.

This lovely little display breakout is a great 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 0.96" display has 160x80 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 IDE but can be easily ported to your favorite microcontroller!

New Products 6/21/2017



## TECHNICAL DETAILS

Product Dimensions: 32.0mm x 28.0mm x 6.0mm / 1.3" x 1.1" x 0.2"

Product Weight: 4.5g / 0.2oz



## LEARN

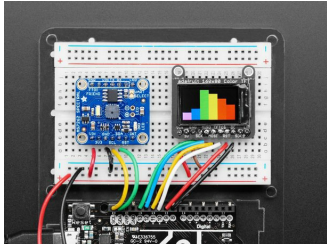
[Adafruit Mini TFT - 0.96" 160x80](#)

Mini TFT is small, but don't let its size fool you!

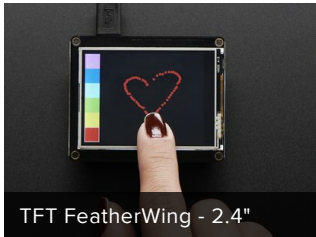


[Adafruit AS7262 6-channel Visible Light Sensor](#)

detect all the colors of the rainbow (except indigo)



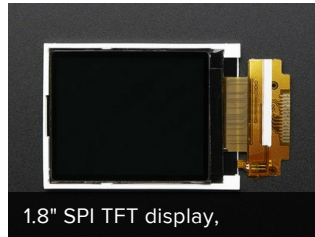
## MAY WE ALSO SUGGEST...



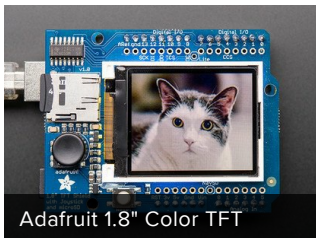
TFT FeatherWing - 2.4"



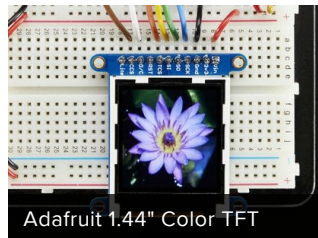
40-pin TFT Friend - FPC



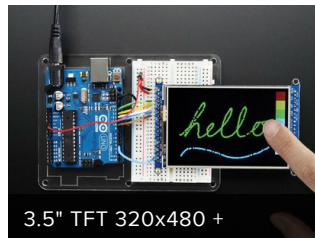
1.8" SPI TFT display,



Adafruit 1.8" Color TFT



Adafruit 1.44" Color TFT



3.5" TFT 320x480 +



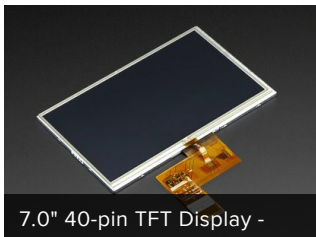
4.3" 40-pin TFT Display -



2.8" TFT LCD with Cap



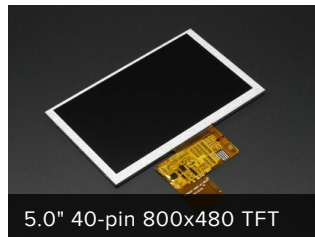
Adafruit 2.4" TFT LCD with



7.0" 40-pin TFT Display -



1.8" Color TFT LCD display



5.0" 40-pin 800x480 TFT

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*"I'm an engineer. I see myself as a toolmaker and the musicians are my customers... They use my tools" -*

**Robert Moog**

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