**Product Description**

2.4 inch Color TFT Touch Screen Display Shield for Arduino. The display has excellent vivid color contrast.

Spice up your Arduino project with a beautiful large touch screen display shield with built in micro SD card connection. This display is big (2.4″ diagonal) bright (4 white-LED backlight) and colorful (18-bit 262,000 different shades)! 240×320 pixels with individual pixel control. It has way more resolution than a black and white 128×64 display. As a bonus, this display has a resistive touch screen attached to it already, so you can detect finger presses anywhere on the screen.

**Technical Details:**

* 2.4″ diagonal LCD TFT display
* 240×320 resolution, 18-bit (262,000) color
* [**SPFD5408**](http://artofcircuits.com/product/www.micro4you.com/files/lcd/SPFD5408A.pdf%E2%80%8E)controller with built in video RAM buffer
* 8 bit digital interface, plus 4 control lines
* Uses digital pins 5-13 and analog 0-3. That means you can use digital pins 2, 3 and analog 4 and 5. Pin 12 is available if not using the micro SD
* Works with any Arduino ‘328 or Mega (Leonardo not supported yet)
* 5V compatible! Use with 3.3V or 5V logic
* Onboard 3.3V 300mA LDO regulator
* 4 white LED backlight. On by default but you can connect the transistor to a digital pin for backlight control
* 4-wire resistive touch screen

**Related Documents:**

1. [SPFD5408 LCD Controller Datasheet](http://artofcircuits.com/product/www.micro4you.com/files/lcd/SPFD5408A.pdf%E2%80%8E)

2. [Schematics](http://www.robotshop.com/media/files/pdf/schematic-shd028.pdf)

3. Adafruit 2.8″ Touch Screen LCD uses same graphic controller. Please see this [link](https://learn.adafruit.com/2-8-tft-touch-shield/downloads).

**Arduino Libraries:**

Following Libraries along with an example (graphictest) found in TFTLCD-Library-Master was tested with this 2.4″ TFT display.

* Touch-Screen Library : <https://github.com/adafruit/Touch-Screen-Library>
* TFT LCD Library: <https://github.com/adafruit/TFTLCD-Library>
* Ada-Fruit Graphics Library: <https://github.com/adafruit/Adafruit-GFX-Library>

Notes: Please extract these folders under Arduino Library folder and do not forget to replace “-” (dash) with “\_” (underscore)

Tested Example: graphictest (Tested on Arduino UNO R3)

\\arduino-1.5.5\libraries\TFTLCD\_Library\_master\examples\graphicstest