

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)! 240x320 pixels with individual pixel control. It has way more resolution than a black and white 128x64 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
- 240x320 resolution, 18-bit (262,000) color
- **SPFD5408** 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](#)
2. [Schematics](#)
3. Adafruit 2.8" Touch Screen LCD uses same graphic controller. Please see this [link](#).

Arduino Libraries:

Following Libraries along with an example (graphicstest) 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: graphicstest (Tested on Arduino UNO R3)

\\arduino-1.5.5\\libraries\\TFTLCD_Library_master\\examples\\graphicstest