2.8" TFT Display - 240x320 with Capacitive Touchscreen

Product ID: 2770




Add some jazz & pizzazz to your project with a color capacitive touchscreen LCD. This TFT display is big (2.8" diagonal) bright (4 white-LED backlight) and colorful! 240x320 pixels with individual RGB pixel control, this has way more resolution than a black and white 128x64 display. As a bonus, this display has a capacitive single-touch touchscreen attached to it already, so you can detect finger presses anywhere on the screen. (We also have a resistive touchscreen version of this display with a breakout)

This is a screen for advanced hackers who like the look of the TFT screen we've put into the PiTFT, TFT shield v2 and 2.8" TFT breakout with capacitive touch. This display has 320x240 pixels and is driven with the ILI9341 chipset. The touch chip is a FT6236 which communicates over I2C. This is just the display module! No PCB is included! You can talk to this chip with SPI (4 or 3 wire), 8 bit parallel, or 16 bit parallel. It also can be put into "dot clock mode" for raw TTL signal in but we have never done this ourselves so there's no example code for that.

We're selling this module bare for those who want to integrate it into their own project. If this is your first time working with this TFT we suggest our breakout board which makes it easy to use SPI or 8-bit interfacing and also has mounting holes, level shifting, etc. For the TFT command set, the data sheet is very complete, but we also have some Arduino code you can refer to here to get started.

A 50-pin, 0.5mm pitch, top-contact FPC connector is required to connect to this screen. We show one in the photos, but it is not included! You cannot solder this connector directly to a PCB - a matching connector is required, you can pick one up here. Otherwise, you can pick up one of our 50-pin FPC breakouts and an 50-pin FPC connector and manually solder.

YouTube link: https://www.youtube.com/watch?t=280&v=jV8eq0YJerM&feature=emb_imp_woyt

Technical Details

Product Dimensions: 69.0mm x 50.0mm x 4.0mm / 2.7" x 2.0" x 0.2"