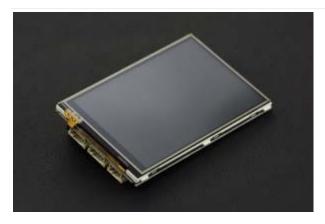


3.5 inches TFT Touchscreen for Raspberry Pi SKU: DFR0428



TFT Touchscreen for Raspberry Pi

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Introduction

Looking for a small screen that is the same size as your Raspberry Pi? This 3.5" resistive touch screen with 480 x 320 resolution will certainly meet your needs. If further combined with a wireless keyboard, It will act as a fully functional computer that fits right in your pocket. Use it to run the Pi's terminal, to play games, or to browse the web.

This item is more than just a screen, it is also a development friendly platform. It is seamlessly compatible with DFRobot Gravity series modules making it easy to connect or even to debug your Pi via the serial port! All the pins of Pi are left unoccupied, giving you more room to connect jumper wires.

This Touchscreen is well designed for the Raspberry Pi 3, 2 or Model B+ (with 40 GPIO Pins). Please note that it is not directly compatible with the old 26 pin GPIO Raspberry Pi.

Supports Raspian and Ubuntu systems, compatible with Raspberry Pi B+, Raspberry Pi 2 and the latest Raspberry Pi 3. (any version with 40 GPIO pins)

Technical Specifications

Operating Voltage: 5V

• Screen resolution: 480 x 320

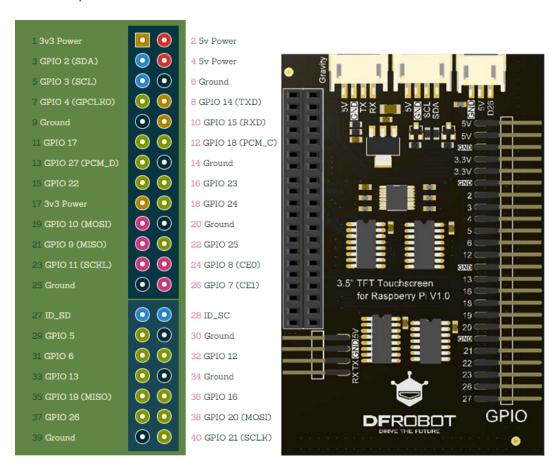
Interface: SPI

GPIO Header Pins: 16
UART Header Pins: 1
Gravity I2C Pins: 1
Gravity UART Pins: 1
Gravity GPIO Pins: 1

Dimensions: 86 x 56 mm / 3.38" x 2.24"

Weight: 70g

Pin Descriptions



Raspberry Pi Pin Diagram

Rear View Display

Using the LCD with your Raspberry Pi

Get Started

Download LCD drivers: LCD-show-160811.tar.gz

https://raw.githubusercontent.com/DFRobot/WikiResource/master/DFR0428/LCD-show-160811.tar.gz

- Copy LCD driver onto the USB disk.
- Insert the USB disk into the USB host on your Raspberry Pi
- Copy the LCD drivers into the Pi's filesystem, e.g /home/pi
- Open a terminal and use the cd command to navigate to the directory where the driver is

e.g. if the directory is "/home/pi" then you need to use the command "cd /home/pi"

```
File Edit Tabs Help

pi@raspberrypi:~ $ cd /home/pi/
pi@raspberrypi:~ $ ls

Desktop Downloads Music Public Templates

Documents LCD-show.tar.gz Pictures python_games Videos

pi@raspberrypi:~ $ ||
```

Unzip LCD-show.tar.gz:

```
tar -xvf LCD-show.tar.gz
```

Enter the LCD-show directory

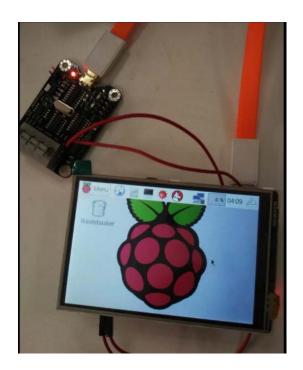
```
cd /home/pi/LCD-show
```

Install driver

```
suo ./LCD35-show
```

```
File Edit Tabs Help
pi@raspberrypi:~ $ cd /home/pi/
pi@raspberrypi:~ $ ls
Desktop Downloads Mus
                                                                    Public
                                                                                               Templates
Documents LCD-show.tar.gz Pictures pythor
pi@raspberrypi:~ $ scrot -u
pi@raspberrypi:~ $ tar -xvf LCD-show.tar.gz
                                                  Pictures python_games
                                                                                              Videos
 _CD-show/
LCD-show/cmdline.txt
 LCD-show/usr/
LCD-show/usr/share/
LCD-show/usr/share/X11/
LCD-show/usr/share/X11/
LCD-show/usr/share/X11/xorg.conf.d/
LCD-show/usr/share/X11/xorg.conf.d/99-fbturbo.conf
LCD-show/usr/share/X11/xorg.conf.d/99-fbturbo.conf-HDMI
LCD-show/waveshare35a-overlay.dtb
 LCD-show/LCD4-show
 LCD-show/LCD5-show
 LCD-show/waveshare32b-overlay.dtb
 _CD-show/LCD-hdmi
 LCD-show/LCD35-show
 LCD-show/etc/
LCD-show/etc/modules-4
 LCD-show/etc/X11/
```

After you run the command, the system will automatically restart and switch to the LCD display.



Restore Output to HDMI

cd /home/pi/LCD-show/

sudo ./LCD-hdmi

Note: When using the LCD display driver be sure to power off the system using software rather than switching the power off abruptly to avoid damage to the LCD.