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keystudio RPI TFT 3.5 LCD Touchscreen Shield



Introduction

It is the cutest, little display for the Raspberry Pi. It features a 3.5" display with 480x320 16-bit color pixels and a resistive touch overlay. It supports any revision of Raspberry Pi (directly-pluggable).

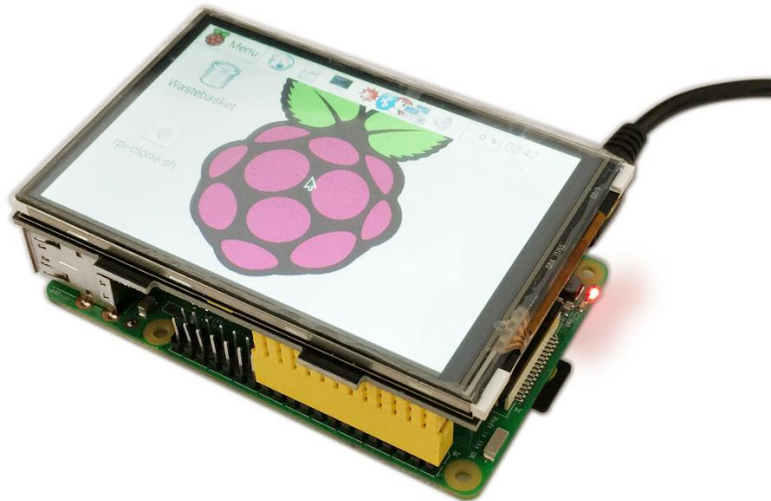
Description

Item	Contents	Unit
Modules Structure	3.5 inch TFT LCD+IC+FPC+BL	
Mcu Interface	16 BITS 80 parallel interface	
LCD Type	TFT Negative Transmissive	
Driver Type	a-Si TFT Active matrix	
Pixel Arrangement	RGB Stripes Arrangement	
Active Area	48.96*73.44	mm
Glass Area	52.96 ×81.44	mm
Resolution	480*320 (Pixel)	Dots
Viewing Direction	9 o'clock	
Control IC	ILI9481	
Backlight	6-chip white LEDS Parallel	

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Connection Diagram

This will have to be the easiest step, since you just need to take the LCD module and plug it on to your raspberry pi GPIO pins as shown in the below picture.



Program Writing

1. Writing an image to the SD card

In our supporting files, you will find the image file “2016-05-27-raspbian-jessie” which is an operation system come with a Desktop Environment . You need to use an image writing tool like Win32DiskImager to install it on your SD card. Then write the image into your SD card.

2. Log in the Pi

Insert the SD Card and finally attach the power supply.

The Raspberry Pi will boot immediately. This will take a little bit more than a minute. Once the Pi is booted it will ask you for the username and the password. By default the following log-in credentials can be used:

Username: pi

Password: raspberry

3. Programming

Copy the LCD-show-160813.tar file and put it into the raspberry pi file through WinSCP. Type in this command to unzip the source code :

```
tar xzf LCD-show-160813.tar.gz
```

```
cd LCD-show-160813
```

Finally type this: `sudo ./LCD-show-160813` to launch the program.

Once this is done, restart your Raspberry Pi:

```
sudo reboot
```

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```
pi@raspberrypi: ~  
login as: pi  
pi@192.168.1.126's password:  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Fri Jan 6 05:19:39 2017  
pi@raspberrypi:~$ ls  
Desktop Downloads Music Public Templates  
Documents LCD-show-160813.tar.gz Pictures python_games Videos  
pi@raspberrypi:~$ tar xvfz LCD-show-160813.tar.gz  
LCD-show/  
LCD-show/etc/  
LCD-show/etc/X11/  
LCD-show/etc/X11/xorg.conf.d/  
LCD-show/etc/X11/xorg.conf.d/99-calibration.conf-101-1024x600  
LCD-show/etc/X11/xorg.conf.d/99-calibration.conf-32-270  
LCD-show/etc/X11/xorg.conf.d/99-calibration.conf-35-180  
LCD-show/etc/X11/xorg.conf.d/99-calibration.conf-101-1024x600-180  
LCD-show/etc/X11/xorg.conf.d/99-calibration.conf-5-180  
LCD-show/etc/X11/xorg.conf.d/99-calibration.conf-4-180
```

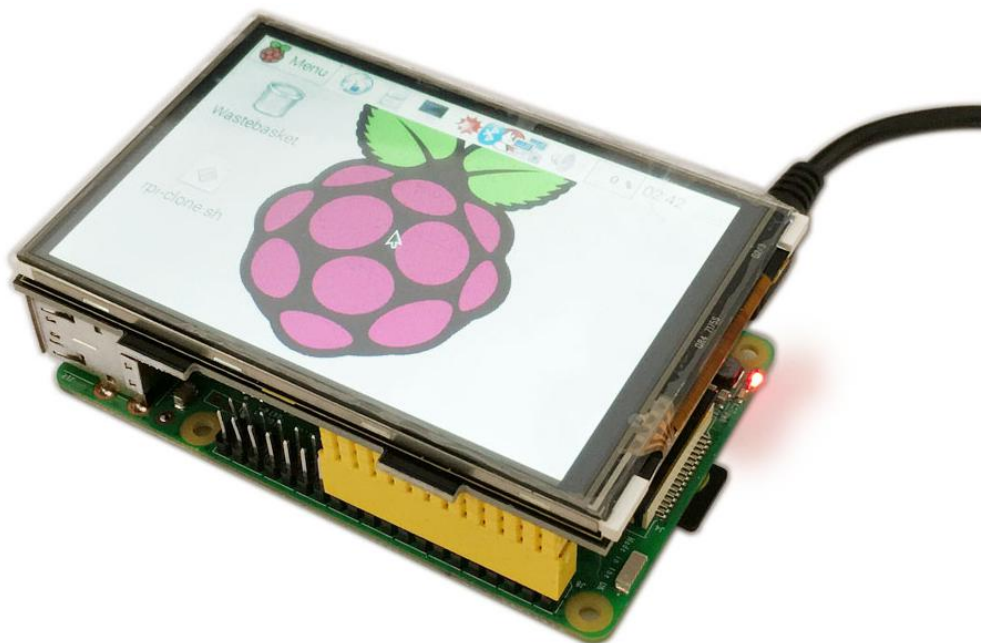
```
pi@raspberrypi: ~/LCD-show  
LCD-show/usr/share/  
LCD-show/usr/share/X11/  
LCD-show/usr/share/X11/xorg.conf.d/  
LCD-show/usr/share/X11/xorg.conf.d/99-fbturbo.conf-HDMI  
LCD-show/usr/share/X11/xorg.conf.d/99-fbturbo.conf  
LCD-show/LCD-hdmi  
LCD-show/\r/  
LCD-show/\r/99-calibration.conf-101-1024x600  
LCD-show/LCD101-1024x600-show  
LCD-show/LCD7-800x480-show  
LCD-show/LCD5-show  
pi@raspberrypi:~$ ls  
Desktop Downloads LCD-show-160813.tar.gz Pictures python_games Videos  
Documents LCD-show Music Public Templates  
pi@raspberrypi:~$ cd LCD-show/  
pi@raspberrypi:~/LCD-show$ ls  
? LCD32-show LCD7-800x480-show  
boot LCD35-show LCD-hdmi  
cmdline.txt LCD43-show usr  
dtc.sh LCD4-800x480-show waveshare32b-overlay.dtb  
etc LCD4-show waveshare35a-overlay.dtb  
inittab LCD5-show xinput-calibrator_0.7.5-1_armhf.deb  
LCD101-1024x600-show LCD7-1024x600-show  
pi@raspberrypi:~/LCD-show$
```

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```
PutTY (inactive)
LCD-show/usr/share/X11/xorg.conf.d/99-fbturbo.conf-HDMI
LCD-show/usr/share/X11/xorg.conf.d/99-fbturbo.conf
LCD-show/LCD-hdmi
LCD-show/\r/
LCD-show/\r/99-calibration.conf-101-1024x600
LCD-show/LCD101-1024x600-show
LCD-show/LCD7-800x480-show
LCD-show/LCD5-show
pi@raspberrypi:~$ ls
Desktop  Downloads  LCD-show-160813.tar.gz  Pictures  python_games  Videos
Documents  LCD-show  Music                  Public    Templates
pi@raspberrypi:~$ cd LCD-show/
pi@raspberrypi:~/LCD-show$ ls
?          LCD32-show          LCD7-800x480-show
boot       LCD35-show          LCD-hdmi
cmdline.txt LCD43-show          usr
dtc.sh     LCD4-800x480-show  waveshare32b-overlay.dtb
etc        LCD4-show          waveshare35a-overlay.dtb
inittab    LCD5-show          xinput-calibrator_0.7.5-1_armhf.deb
LCD101-1024x600-show  LCD7-1024x600-show
pi@raspberrypi:~/LCD-show$ sudo ./LCD35-show
mkdir: cannot create directory '/etc/X11/xorg.conf.d': File exists
LCD configure 0
```

Test Result

Touch the touchscreen to look at the information on your Pi as shown in below figure.



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Links

RASPBIAN JESSIE:

<https://www.raspberrypi.org/downloads/raspbian/>

Installation Package:

<http://www.keystudio.com/files/index/download/id/1484286079/>

Source Code:

<http://www.keystudio.com/files/index/download/id/1484286080/>

PDF File:

<http://www.keystudio.com/files/index/download/id/1484286255/>