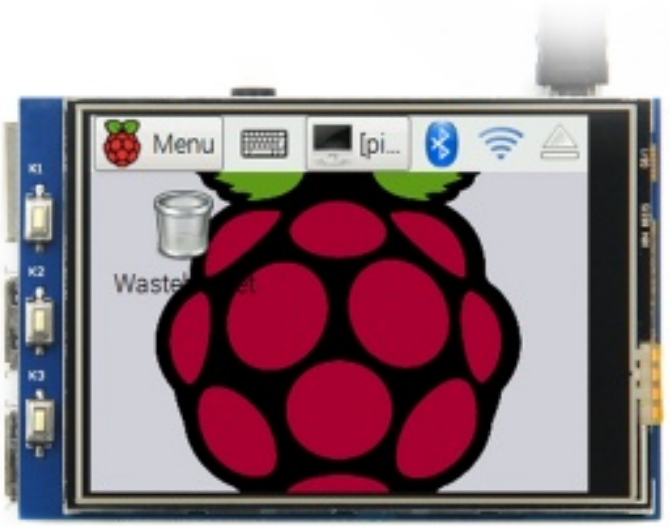
3.2inch RPi Display

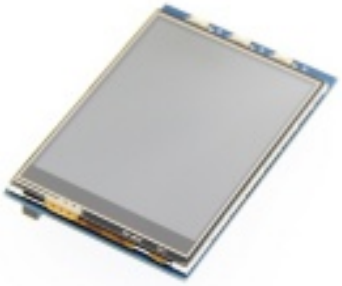
Índice

- 1 Product pictures
- 2 Features
- 3 Key Parameters
- 4 Hardware description
- 5 How to use with Raspbian
- 6 How to rotate the display direction
- 7 Download Resources

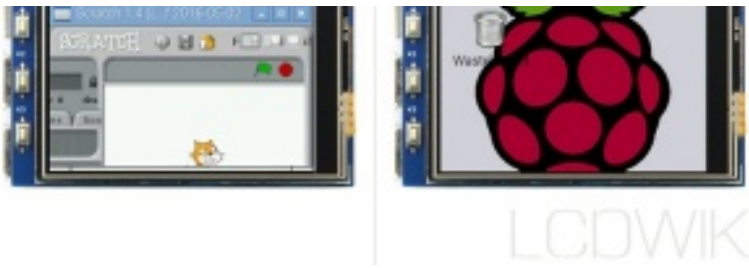
Product pictures



LCDWIKI



LCDWIKI



Features

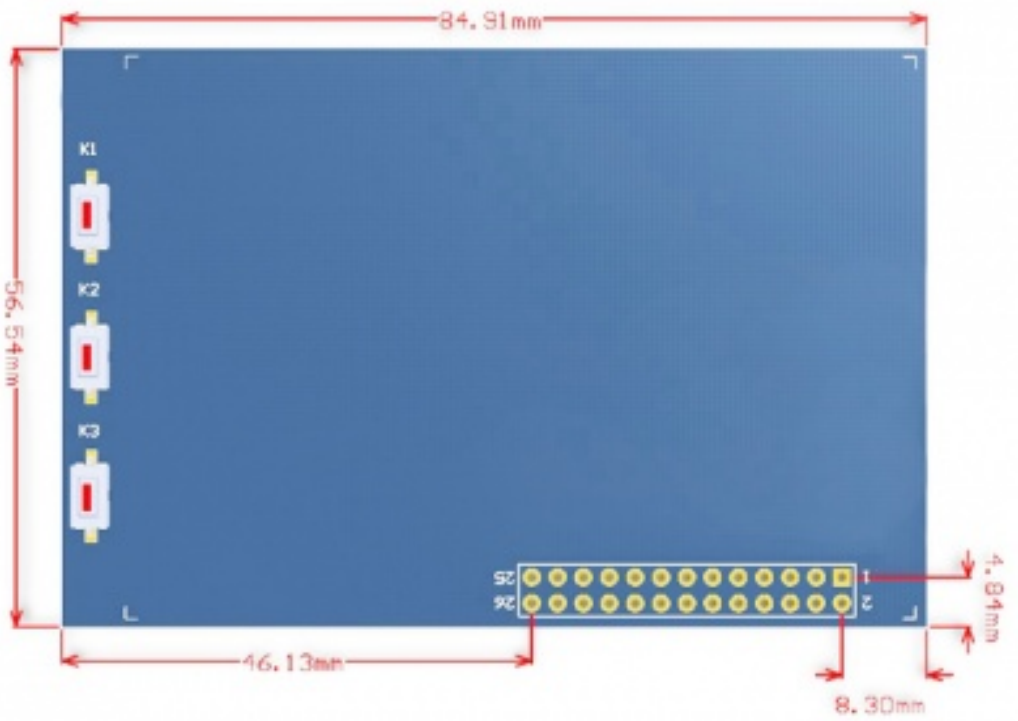
- 320×240 resolution
- Resistive touch control
- Supports any revision of Raspberry Pi (directly-pluggable)
- Compatible with Raspberry Pi A, B, A+, B+, 2B, 3B, 3B+versions
- Drivers provided (works with your own Raspbian/Ubuntu directly)
- Size perfectly fits the Raspberry Pi
- High quality immersion gold surface plating
- Supports Raspbian system, Ubuntu system ,Kali Linux system

Key Parameters

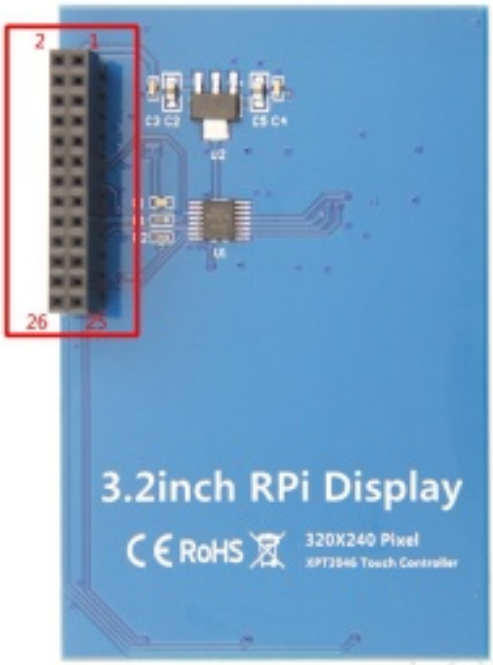
SKU	MPI3201
LCD Type	TFT
LCD Interface	SPI
Driver IC	ILI9341
Touch Screen Type	Resistive
Touch Screen Controller	XPT2046
Colors	65536
Backlight	LED
Resolution	320*240 (Pixel)
Aspect Ratio	8:5
Active Area	48.6*64.8(mm)
Dimensions	84.91*56.54(mm)
Power Dissipation	0.15A*5V
Rough Weight(Package containing)	54 (g)

Hardware description

- Dimensional drawing



- Interface



LCDWIKI

PIN NO.	SYMBOL	DESCRIPTION
1, 17	3.3V	Power positive (3.3V power input)
2, 4	5V	Power positive (5V power input)
3, 5, 7, 8, 10, 22	NC	NC
6, 9, 14, 20, 25	GND	Ground
11	TP_IRQ	Touch Panel interrupt, low level while the Touch Panel detects touching
12	KEY1	Key
13	RST	Reset
15	LCD_RS	LCD instruction control, Instruction/Data Register selection
16	KEY2	KEY
18	KEY3	KEY
19	LCD_SI / TP_SI	SPI data input of LCD/Touch Panel
21	TP_SO	SPI data output of Touch Panel
23	LCD_SCK / TP_SCK	SPI clock of LCD/Touch Panel
24	LCD_CS	LCD chip selection, low active
26	TP_CS	Touch Panel chip selection, low active

How to use with Raspbian

- Step 1, Install Raspbian official image file

1) Download the latest image from the official download

```
    https://www.raspberrypi.org/downloads/raspbian/
```

2) Install the system according to the official tutorial steps.

- Step 2, Install the driver for the LCD

1) Connect the **3.2inch RPi Display** with the Raspberry Pi and plug it in

2) Log into the command line interface for Raspberry Pi（Initial user name: pi, Password: raspberry）, Get the latest drive from GitHub (the raspberry pie needs to connect to the Internet), Execute the following commands:

```
sudo rm -rf LCD-show
git clone https://github.com/goodtft/LCD-sh
chmod -R 755 LCD-show
cd LCD-show/
sudo ./LCD32-show
```

After execution, the system will be restarted. If the display and touch are normal, the installation is successful.

How to rotate the display direction

This method only applies to the **Raspberry Pi** series of display screens, other display screens do not apply.

- **Method 1，** If the driver is not installed, execute the following command (Raspberry Pi needs to connected to the Internet):

```
sudo rm -rf LCD-show
git clone https://github.com/goodtft/LCD-sh
chmod -R 755 LCD-show
cd LCD-show/
sudo ./XXX-show 90
```

After execution, the driver will be installed. The system will automatically restart, and the display screen will rotate 90 degrees to display and touch normally.
（' **XXX-show** ' can be changed to the corresponding driver, and ' 90 ' can be changed to 0, 90, 180 and 270, respectively representing rotation angles of 0 degrees, 90 degrees, 180 degrees, 270 degrees）

- **Method 2，** If the driver is already installed, execute the following command:

```
cd LCD-show/
sudo ./rotate.sh 90
```

After execution, the system will automatically restart, and the display screen will rotate 90 degrees to display and touch normally.
（' 90 ' can be changed to 0, 90, 180 and 270, respectively representing rotation angles of 0 degrees, 90 degrees, 180 degrees, 270 degrees）
If the **rotate.sh** prompt cannot be found, use **Method 1** to install the latest drivers

Download Resources

- **Document**

1. 3.2inch_RPi_Display_V1.0 (http://www.lcdwiki.com/res/MPI3201/Document/3.2inch_RPi_Display_V1.0.pdf)
2. How_to_install_the_LCD_driver_V1.2 (http://www.lcdwiki.com/res/PublicFile/How_to_install_the_LCD_driver_V1.2.pdf)

3. How_to_install_matchbox-keyboard (http://www.lcdwiki.com/res/PublicFile/How_to_install_matchbox-keyboard(En).pdf)
4. How_to_use_Raspberry_Pi(Download,Format,Burn,SSH,PuTTy)-V1.0.pdf (http://www.lcdwiki.com/res/PublicFile/How_to_use_Raspberry_Pi(Download,Format,Burn,SSH,PuTTy)-V1.0.pdf)
5. How_to_calibrate_the_resistance_touch_screen-V1.2 (http://www.lcdwiki.com/res/Show_Direction_and_Touch/How_to_calibrate_the_resistance_touch_screen-V1.2.pdf)
6. How_to_change_display_direction-GPIO-Resistive_Touch-V1.2 (http://www.lcdwiki.com/res/Show_Direction_and_Touch/How_to_change_display_direction-GPIO-Resistive_Touch-V1.2.pdf)

- **Driver download**

  download:LCD-show.tar.gz (http://www.lcdwiki.com/res/RaspDriver/LCD-show.tar.gz)

- **Images download**

  If you have difficulty installing the driver, or if you still can't use the display properly after installing the driver,
  Please Try our Configned images for tested.
  Just need download and write the image into the TF card. **DO NOT** need any driver installation steps.

Image Name	Version	Support	Password	Download	
Raspbian	2020-08-20 -raspios	PI4/PI3B+/PI3/PI2/ PI1/ZERO/ZERO W	user:pi password:raspberry	 BaiduYun:	2.4-2.8-3.5-MPI2418-MPI2801-MPI3201-2020-08-20-raspios-buster-armhf.7z (https://pan.baidu.com/s/1R8IH6BB85NIRBpEaswv6kw) Fetch Code：femf
				 Mega:	2.4-2.8-3.5-MPI2418-MPI2801-MPI3201-2020-08-20-raspios-buster-armhf.7z (https://mega.nz/folder/nCJzgY5D#OE_sEg0a51nqKOUp8SIKeg)
Ubuntu MATE	18.04	PI3B+,PI3,PI2	user:pi password:raspberry	 BaiduYun:	MPI2418-MPI2801-MPI3201-Ubuntu-18.04.2.7z (https://pan.baidu.com/s/1awWAKuzUyXqf_Q-sTV-WMQ) Fetch Code：6k6c

				Mega:	MPI2418-MPI2801-MPI3201-Ubuntu-18.04.2.7z (https://mega.nz/#!ybB1gCyA!KUusJnYOwwmu7oDeylFhl8EEt3dY7i2-TQKdEKx7uCY)
Kali Linux RaspberryPi	2020.2b	PI4B,PI3B+,PI3,PI2	user: kali password: kali	BaiduYun:	MPI2418-MPI2801-MPI3201-2.4-2.8-3.5inch-kali-linux-2020.2b (https://pan.baidu.com/s/1RQn9E3-a5bKDHXVkcsODJQ) Fetch Code：7a1q
				Mega:	MPI2418-MPI2801-MPI3201-2.4-2.8-3.5inch-kali-linux-2020.2b (https://mega.nz/folder/DOpCUI5Z#uF4QQ8EY3Cj71R19ECKiXQ)

- MD5 of Image (http://www.lcdwiki.com/MD5)
- **Software**

1. Panasonic SDFormatter (http://www.lcdwiki.com/res/software/Panasonic_SDFormatter.zip)
2. Win32DiskImager (http://www.lcdwiki.com/res/software/Win32DiskImager.zip)
3. PuTTY (http://www.lcdwiki.com/res/software/putty.zip)

BACK TO TOP

Disponível em "http://www.lcdwiki.com/index.php?title=3.2inch_RPi_Display&oldid=3529"

- Esta página foi modificada pela última vez em 22 de setembro de 2020, às 17h31min