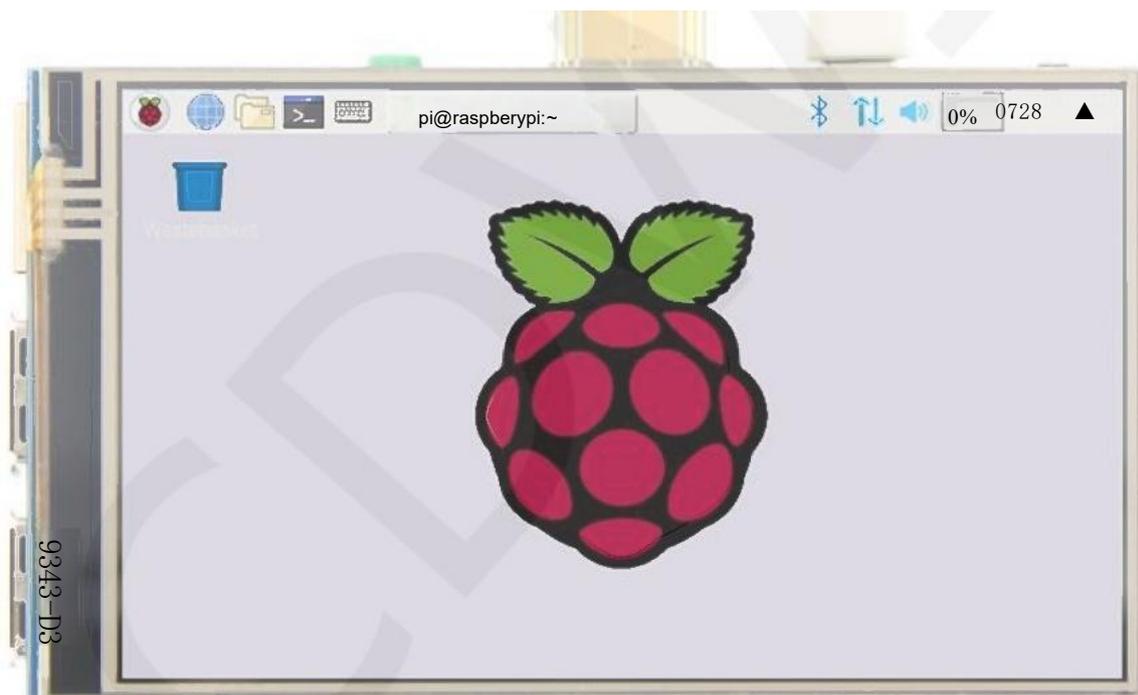


4inch HDMI Display-C

User Manual



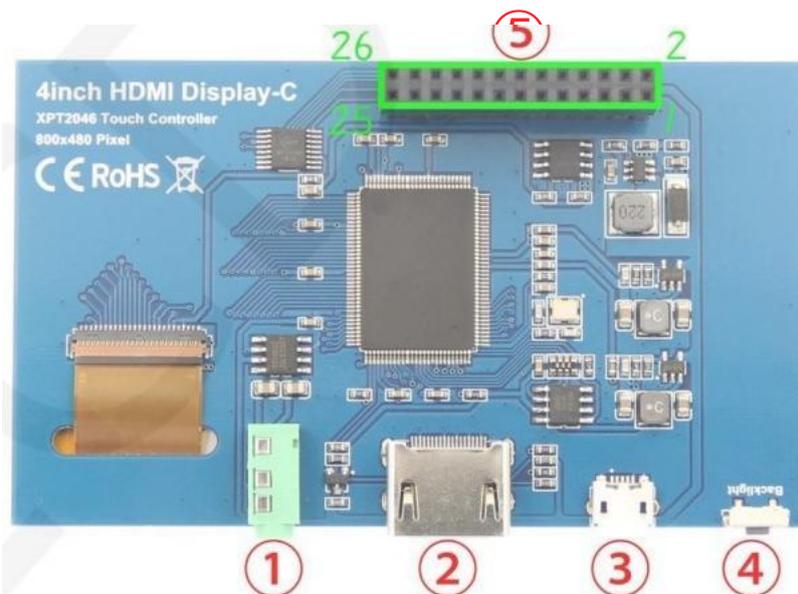
【Product Description】

- ◆ 4"standard display,800×480 resolution
- ◆ IPS,fast response,wide viewing Angle,color restore true
- ◆ With resistive touch screen,support touch control
- ◆ Support backlight control,Brightness variation
- ◆ Support standard HDMI interface input,compatible with and can be directly inserted with Raspberry Pi(3rd,2nd,and 1st generation)
- ◆ Can be used as general-purpose-use HDMI monitor,for example:connect with a computer HDMI as the sub-display (resolution need to be able to force output for 800x480)
- ◆ No IO resources needed for display only(Raspberry Pi uses IO resources for touch)
- ◆ CE,RoHS certification

【Product Parameters】

- ◆ Size: 4.0(inch)
- ◆ SKU: DS20226
- ◆ Display Mode:IPS
- ◆ Resolution: 800×480(dots)
- ◆ Touch: 4-wire resistive touch
- ◆ Dimensions:143*134*51(mm)
- ◆ Weight: 127(g)

【Hardware Description】



◆ Hardware capabilities

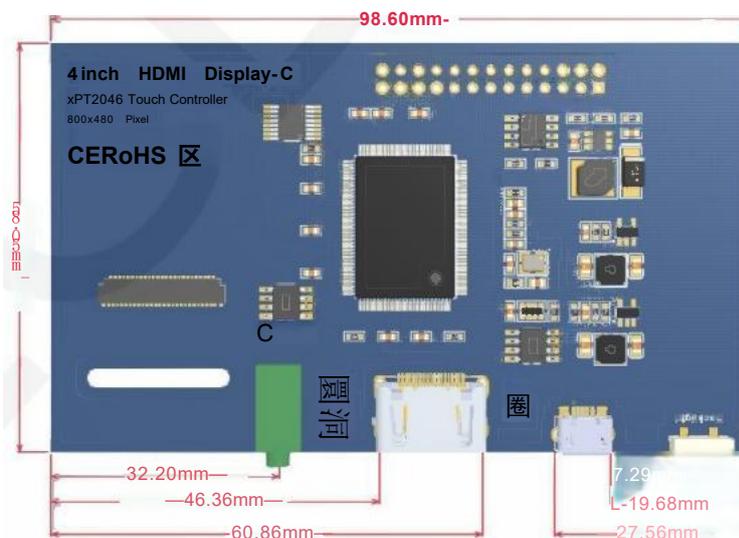
- ① **3.5mm Headphone Jack:** Output audio signal
- ② **HDMI:**Used to connect the main board and LCD display for HDMI transmission

- ③ **Micro USB:** Get 5V Power from USB,if ⑤-13*2 Pin Socket has been connected,that this USB interface can be No Connect.
- ④ **Backlight adjustment button:**Short press backlight change 10%,long press a few seconds to close backlight;short press to open backlight
- ⑤ 13*2 Pin Socket:Get+5V Power from raspberry Pi to LCD,at the same time transfer touch signal back to Raspberry Pi.

◆ 13*2 Pin Socket interface definition

Pin	Name	Description
1、 17	3.3V	Power supply +3.3V
2、 4	5V	Power supply +5V
3、 5、 7、 8、 10、 11、 12、 13、 15、 16、 18、 24	NC	NC
6、 9、 14、 20、 25	GND	GND
19	TP_SI	SPI data input of touch panel
21	TP_SO	SPI data output of touch pane
22	TP_IRQ	The touch panel s interrupted and the low level is detected when the touch panel is pressed down
23	TP_SCK	Touch the SPI clock signal of the pane
26	TP_CS	Touch panel select signal,low level select touch panel

【Dimensions】



【Connect with Raspberry Pi】

1)Connect The LCD 13*2 Pin socket to Raspberry Pi as the Picture show



2)Connect The LCD and Raspberry Pi with the HDMI adapter



【How to use with Raspbian】

◆ Step 1,Install **Raspbian** official image

- 1) Download from the official website: <https://www.raspberrypi.org/downloads/>
- 2)Format Micro SD card by **SDFormatter**
- 3)Burn the official image into Micro SD card by using **Win32DiskImager**.

◆ Step 2,Install Driver

Method 1:online installation (Raspberry Pi need to connect to the Internet)

- 1)Log onto the Raspberry Pi by Putty SSH(User:pi;Password:raspberrypi)
- 2)Execute the following command (you can click the right mouse button to paste after copied in Putty)

```
git clone https://github.com/goodtft/LCD-show.git
chmod -R755 LCD-show
cd LCD-show/
sudo ./MPI4008-show
```

3)Wait for a moment after executing,you can use the LCD.

Method 2:offline installation

1) Download from the web site or copy the "**lcd-show.tar.gz**"drive from the CD-ROM to the root directory of the Raspberry Pi system card;

<http://www.lcdwiki.com/res/RaspDriver/LCD-show.tar.gz>

(Suggestion:copy flash driver directly to Micro SD card after completion of **Step 1**)

2)Unzip and extract drive files as the following command:

```
cd /boot
sudo tar zxvf LCD-show.tar.gz
cd LCD-show/
sudo ./MPI4008-show
```

3)Wait for a moment after executing,you can use the LCD.

【How to use with Ubuntu、Kali and RetroPie】

◆ Step 1,Install Ubuntu,Kali or RetroPie official image

1)Download from the official website:

Ubuntu: <https://ubuntu-mate.org/raspberry-pi/>

Kali: <https://www.offensive-security.com/kali-linux-arm-images/>

RetroPie : <https://retropie.org.uk/download/>

2)Format Micro SD card by **SDFormatter**

3)Burn the official image into Micro SD card by using **Win32DiskImager**.

◆ Step 2,Install Driver

Due to system differences, **Ubuntu,Kali,RetroPie** are temporarily unable to install drivers online. Only the offline installation method can be used.

1)Download the corresponding version of driver "**LCD-show.tar.gz**" from the website to the root directory of Micro SD card of raspberry PI system

(**Note:if the version does not match,the LCD may not display properly**):

http://www.lcdwiki.com/4inch_HDMI_Display-C#Download_Resources

(After the completion of the recommended **step 1**, copy the driver directly into the Micro SD card root directory)

2)Unzip and install the driver using the following command:

```
cd /boot
sudo tar zxvf LCD-show.tar.gz
cd LCD-show/
sudo ./MPI4008-show
```

3)After the command is executed,the system will restart and the LCD will work normally

【How to use Raspberry Pi quickly】

- ◆ If you find it difficult to install the driver in the previous step,or if the display is abnormal,please use our pre-installed driver image
 - 1)Download and installthe driver image file from the website:
http://www.lcdwiki.com/4inch_HDMI_Display-C#Download_Resources
 - 2)Format Micro SD card by **SDFormatter**
 - 3)Burn the official image into Micro SD card by using **Win32DiskImager** .
 - 4)Insert Micro SD card,connect LCD,start Raspberry Pi,and it will work normally.

【How to use as PC monitor】

- ◆ Connected the computer HDMI output to the LCD HDMI interface by HDMI cable.
- ◆ Power to Micro USB interface
- ◆ If you have multiple monitors,please pul the other displayer,and make this LCD as the only displayer for testing.
- ◆ As computer monitors,the touch function will not be available.