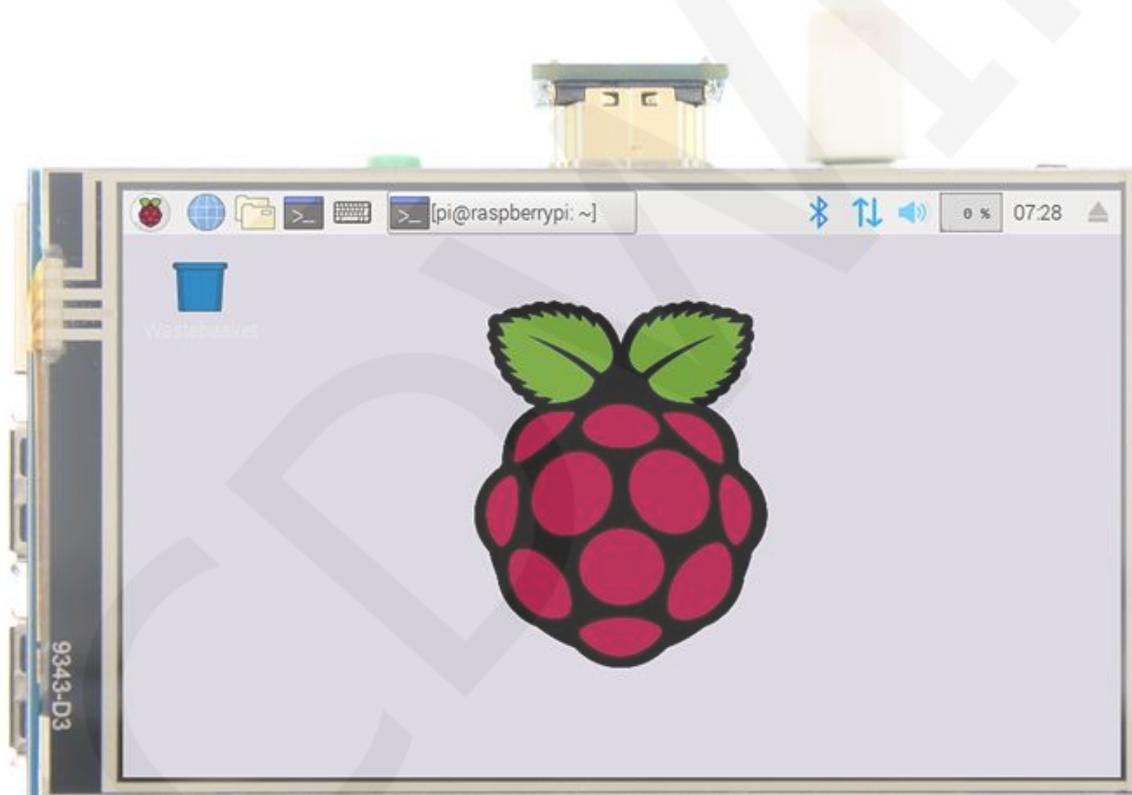


4inch HDMI Display-C

User Manual



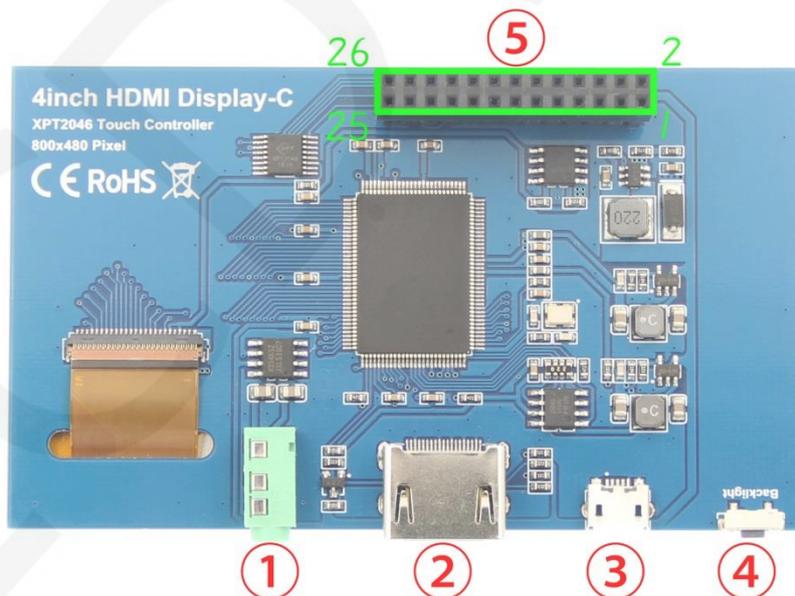
【Product Description】

- ◆ 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 800 x480)
- ◆ No IO resources needed for display only (Raspberry Pi uses IO resources for touch)
- ◆ CE, RoHS certification

【Product Parameters】

- ◆ Size: 4.0 (inch)
- ◆ SKU: MPI4008
- ◆ Display Mode: IPS
- ◆ Resolution: 800×480 (dots)
- ◆ Touch: 4-wire resistive touch
- ◆ Dimensions: 143*134*51 (mm)
- ◆ Weight: 127 (g)

【Hardware Description】



◆ Hardware capabilities

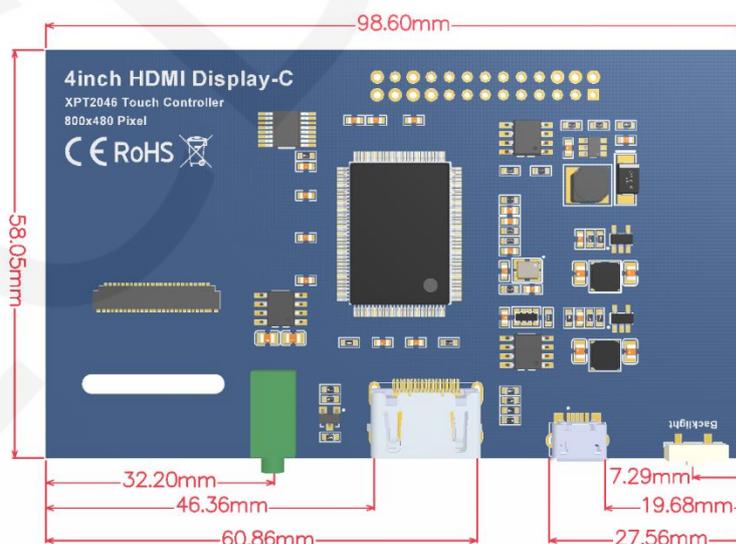
- ① **3.5mm Headphone Jack:** Output audio signal
- ② **HDMI:** Used to connect the main board and LCD display for HDMI transmission

- 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

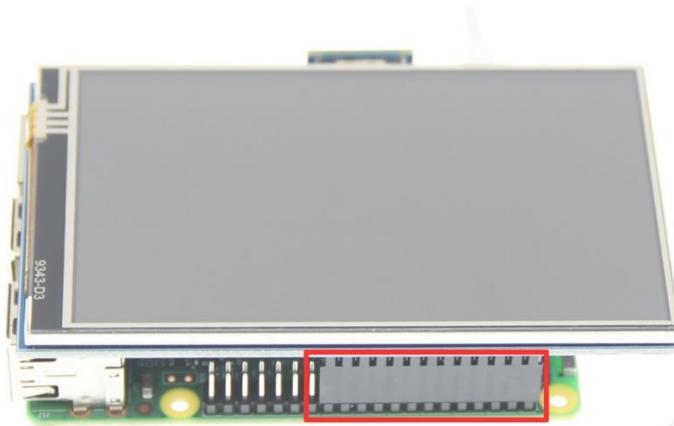
| Pin | Name | Description |
|--|--------|---|
| 1、 17 | 3.3V | Power supply +3.3V |
| 2、 4 | 5V | Power supply +5V |
| 3、 5、 7、 8、 10、 11、 12、 13、 15、 16、 18、 24 | NC | NC |
| 6、 9、 14、 20、 25 | GND | GND |
| 19 | TP_SI | SPI data input of touch panel |
| 21 | TP_SO | SPI data output of touch panel |
| 22 | TP_IRQ | The touch panel is interrupted and the low level is detected when the touch panel is pressed down |
| 23 | TP_SCK | Touch the SPI clock signal of the panel |
| 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: raspberry)
- 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 -R 755 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

- 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/>
- Format Micro SD card by **SDFormatter**
- 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.

- 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 install the 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 pull the other displayer, and make this LCD as the only displayer for testing.
- ◆ As computer monitors, the touch function will not be available.



Scan the QR Code
For more details