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7" HDMI Display with Capacitive Touchscreen(Compatible with Raspberry Pi)

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INTRODUCTION

This is a 7 HDMI display with capacitive touchscreen. It comes with a 7" LCD screen with capacitive touch panel overlay on it. The touch panel supports up to 5 touch points. And it adopts DFRobot USB free-driver technology, no special requirement of drivers. You can use it as easy as keyboard or mouse. It can be directly plugged to PC for touching control. In combination with HDMI HD screen, it can turn a large PC to a tablet immediately.
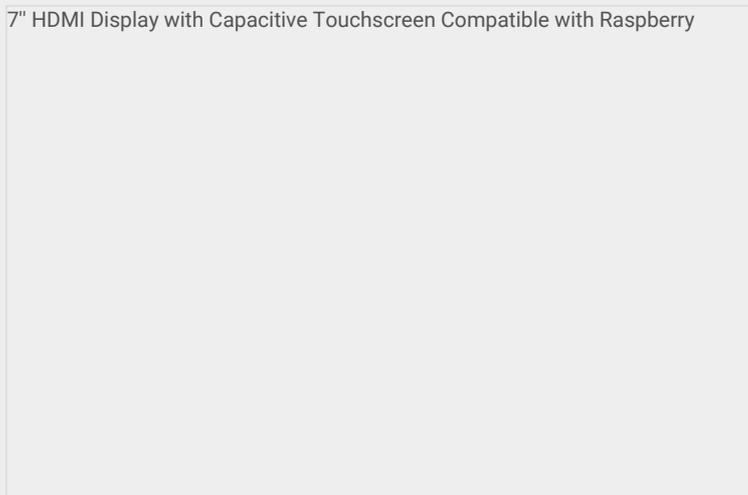
7" HDMI Display with Capacitive Touchscreen Compatible with Raspberry

The screen supports Windows, Linux and MAC OS. It can be used on LattePanda, Raspberry Pi and other HDMI device. We also make some special hole to make it compatible with Arduino screw hole. You can mount them on the back of the display directly.

There is no need for external power supply for the screen, it can be powered by USB port and HDMI port. The display also supports back light adjustment. It is very convenient to adjust backlight by potentiometer on the back of the display.
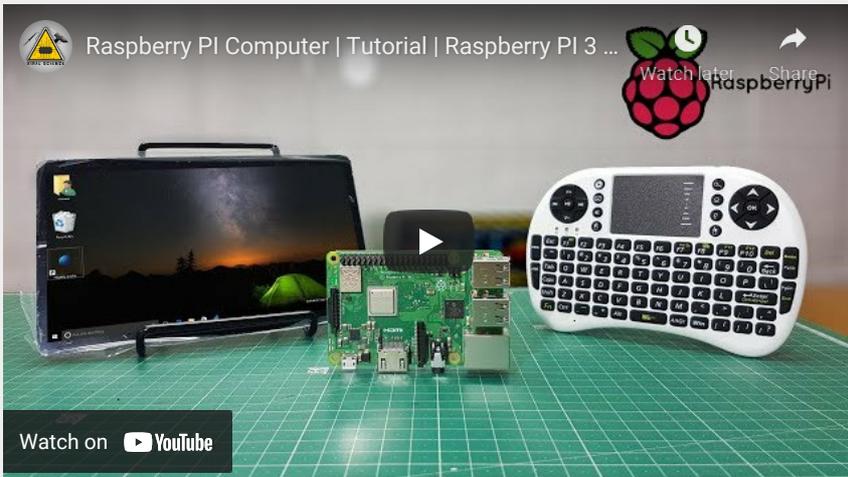
How To Make Your Own Mini Computer

Make Mini PC using Raspberry Pi 3 and 7" HDMI Display

Raspberry PI Computer | Tutorial | Raspberry PI 3 Model B+

IOT|HOME Automation | MQTT Server with Pi, LCD and Camera

In this tutorial series we will biuld a Pi hub with MQTT broker.
Hardware needed:
Camera for Raspberry Pi
7" HDMI Display with Capacitive Touchscreen
Raspberry Pi 3 Model B

- Please guarantee the external power supply current is above 1.5A@5V when it is driven by raspberry pi. The lower current will reduce the touching sensitivity.

- The package of this product only contains a HDMI adapter module for Raspberry Pi 3. If you want to use the product with Raspberry Pi 4, please click the link to buy special cable for it

SPECIFICATION

- Operating Voltage: 5V

- Operating Current: 160mA (with HDMI connection)

- Maximum Operating current: 1200mA

- Refresh Frequency: 43Hz (not recommended 60Hz, it will not be full screen)

- Screen Resolution: 1024x600

- Video Interface: HDMI

- Dimensions: 183mm x 100mm/ 7.2" x 3.93"

- Mounting hole size: 3.1mm x 6mm

- Weight: 328g

DOCUMENTS

- Product wiki

- LattePanda Alpha & Delta Display Selection Guide

SHIPPING LIST

- 7" HDMI Display with Capacitive Touchscreen x1

- Raspberry Pi HDMI Adapter x1

- M2.5*8+6 Standoffs x8

- M2.5*6 DK4.9 Machine Screws x8

REVIEW

FAQ

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🤖 n the discussion...

Martijn van Vloten • 2 years ago

The touchscreen stops responding after some time (i.e. 30 minutes). When I reconnect the micro USB plug it starts to work again⚑ Any idea what the problem can be? (The screen is connected to a Raspberry pi 3b+).

1 ⌃ • Reply • Share ›

    DFRobot Support Mod → Martijn van Vloten • 2 years ago

    How do you power your Raspberry Pi?   ⚑

    ⌃ • Reply • Share ›

       Martijn van Vloten → DFRobot Support • 2 years ago

       No idea??   ⚑

       ⌃ • Reply • Share ›

          DFRobot Support Mod → Martijn van Vloten • 2 years ago

          We made a test like you mentioned way, the screen worked well, can you try again to verify the problem? ⚑

          ⌃ • Reply • Share ›

Martijn van Vloten → DFRobot Support • 2 years ago

I did some additional testing with 2 different power supplies and different USB cables. The problem returns every time. It can be after 5 minutes and sometimes after 20 seconds. Sometimes after a longer period. When the problem occurs, the mouse pointer moves to the very up right corner.
What more can I test or do?

∧ • Reply • Share ›

DFRobot Support `Mod` → Martijn van Vloten • 2 years ago

maybe something wrong, please contact store@dfrobot.com for after-sales~

∧ • Reply • Share ›

Martijn van Vloten → DFRobot Support • 2 years ago

The Raspberry Pi is powered by a 2A power supply (plug-in wall type).

∧ • Reply • Share ›

Alan Bontoft • a month ago

I just received this screen and have paired it with a Raspberry Pi 3B. I've edited /boot/config.txt as per the wiki. When in console mode (no desktop) there is a thin line of a few pixels wide down the left hand side of the screen.

Has anyone else seen this issue and got a solution? It will be used for a touchscreen app so I need to try and get rid of this. I also connected it to a Windows PC and the line wasn't present so it seems to be a Raspberry Pi setting that's at fault.

∧ • Reply • Share ›

Alan Bontoft → Alan Bontoft • a month ago

For anyone who is interested, I managed to solve this.

commenting out this line from /boot/config.txt cured the problem:

hdmi_drive=2

I don't think it is un-commented by default so I must have used it for a previous configuration, possibly when forcing the pi to use HDMI.

1 ∧ • Reply • Share ›

SEUNG HWAN KIM • 2 months ago

i bought this screen and connect with Win10 Enterprise lot 64bit (connected HDMI and powered usb in my computer)

but touch is not work

do you know why?

∧ • Reply • Share ›

DFRobot Support `Mod` → SEUNG HWAN KIM • 2 months ago

Hi Seung,

We have not tested with Win10 Enterprise lot,. But you can try the followings:

⚠ Note: Please guarantee the external power supply current is above 1.5A@5V when it is driven by raspberry Pi. The lower current will reduce the touching sensitivity.

Touchscreen with Raspberry Pi

You need to reset resolution to avoid touch differentiation caused by resolution difference between Raspberry Pi and the Touchscreen.

• Enter /boot/config.txt, modify or add the project as below:

```
#### remove black borders
disable_overscan=1

#### set specific CVT mode
hdmi_cvt 1024 600 60 6 0 0 0

#### set CVT as default
hdmi_group=2
hdmi_mode=87
```

∧ • Reply • Share ›

SEUNG HWAN KIM → DFRobot Support • 2 months ago

i am not using RPi... i must use window 10 in my project

Does any idea ?

∧ • Reply • Share ›

DFRobot Support Mod → SEUNG HWAN KIM • 2 months ago

Hi Seung,

Sorry,

No idea on WIndows 10 as we haven't tested on it.

⌃ • Reply • Share ›

SEUNG HWAN KIM → DFRobot Support • 2 months ago

but product said

The screen supports Windows, Linux and MAC OS. It can be used on LattePanda, Raspberry Pi and other HDMI device.

does it mean only display fuction? not touch screen?

⌃ • Reply • Share ›

Matthias Jetleb • 3 months ago

Does anyone know if there is a compatible 3D printable case for either the 2.0 or the 1.0 version? I have both displays but can't find a compatible case.

⌃ • Reply • Share ›

Gianpaolo → Matthias Jetleb • 3 months ago

were you able to make it work?
we are trying to use it but having problem.
just bought this https://www.dfrobot.com/pro... 7" capacitive touchscreen by DFrobot, and we are connecting it to a Windows 10Pro Mini PC, Z83-V.
the touch feature worked for 10 seconds then was gone.
it works also in the restore to a data-point of the Troubleshooting page, but stops working when back to the PC regular functionality.

We delate drivers and restore them, under device manager-HMI but I wasn't able to find a specific driver related to the touch screen.

Any help is much appreciated.

⌃ • Reply • Share ›

Gianpaolo • 3 months ago

Good afternoon,
just bought this https://www.dfrobot.com/pro... 7" capacitive touchscreen by DFrobot, and we are connecting it to a Windows 10Pro Mini PC, Z83-V.
the touch feature worked for 10 seconds then was gone.
it works also in the restore to a data-point of the Troubleshooting page, but stops working when back to the PC regular functionality.

We delate drivers and restore them, under device manager-HMI but I wasn't able to find a specific driver related to the touch screen.

Any help is much appreciated.
thanks in advance and happy holidays.
:-)

⌃ • Reply • Share ›

Laurenz • 4 months ago

Doesn't work at all, instructions are disastrous.
Did anyone get the display to work under Windows?
Why is there no button instead of the boot pins ... stupid

⌃ • Reply • Share ›

Jesus Mu • 9 months ago

Is it fully compatible with Raspberry Pi 4 and its micro HDMI ports?

⌃ • Reply • Share ›

CoachK → Jesus Mu • 2 months ago

Yes, I can confirm that this screen works with RPi4.

⌃ • Reply • Share ›

Stanwin • 10 months ago

Hi, how do i power the screen? CAn I just connect the HDMI to my lattepanda and the panda gets power from the power source? Will

· Reply · Share ›

Caleb Fowler · 10 months ago

can you update the product dimensions? I measure my screen (including the bezel) to be 177mm x 112mm

∧ · Reply · Share ›

charly · a year ago

can you give me the thickness of the card and the screen?

∧ · Reply · Share ›

DFRobot Support `Mod` → charly · a year ago

Can you mark the card on the picture.

∧ · Reply · Share ›

이수종 · 2 years ago

I connected USB on touchscreen to RapssberryPi3 but touch does not work. Should I have to do firmware update? Or any have another solution?

∧ · Reply · Share ›

DFRobot Support `Mod` → 이수종 · 2 years ago

Hey,
Can you confirm you've completed this step first:

Touchscreen with Raspberry Pi

You need to reset resolution to avoid touch differentiation caused by resolution difference between Raspberry Pi and the Touchscreen.

- Enter /boot/config.txt, modify or add the project as below:

```
#### remove black borders
disable_overscan=1

#### set specific CVT mode
hdmi_cvt 1024 600 60 6 0 0 0

#### set CVT as default
hdmi_group=2
hdmi_mode=87
```

https://uploads.disquscdn.c...

∧ · Reply · Share ›

이수종 → DFRobot Support · 2 years ago

I followed the step, but touch does not work..What should I do?

∧ · Reply · Share ›

이수종 → DFRobot Support · 2 years ago

Yes, I have already set screen resolution

∧ · Reply · Share ›

DFRobot Support `Mod` → 이수종 · 2 years ago

Hey could you relate this over to techsupport@dforobot.com, they can better assist you in this matter.

∧ · Reply · Share ›

이수종 → DFRobot Support · 2 years ago

I resolve the problem by changing the USB cable. Thx and sorry for bothering you.

∧ · Reply · Share ›

DFRobot Support `Mod` → 이수종 · 2 years ago

No problem! Glad things got fixed.

∧ · Reply · Share ›

alexander · 2 years ago

What are the operating temperature ranges?

∧ · Reply · Share ›

DFRobot Support `Mod` → alexander • 2 years ago

Hey Alexander,

The operating temps are -10 degrees to 60 degrees Celsius.

∧ • Reply • Share ›

Corne van Zyl • 2 years ago

see more

∧ • Reply • Share ›

DFRobot Support `Mod` → Corne van Zyl • 2 years ago

And have you tried adjust the resolution?

∧ • Reply • Share ›

Corne van Zyl → DFRobot Support • 2 years ago

I have tried adjusting the resolution but couldn't find a setting in either windows or the intel graphics that would fix the issue. I tried going into the BIOS of the LattePanda (dont think the type of system matters) which strangely used the whole screen and returned to the same problem when I got back to Windows?

∧ • Reply • Share ›

DFRobot Support `Mod` → Corne van Zyl • 2 years ago

Hi,

How do you power the screen?

∧ • Reply • Share ›

Corne van Zyl → DFRobot Support • 2 years ago

The screen is powered through both the HDMI and the micro USB.

∧ • Reply • Share ›

Sukma Firdaus • 2 years ago

can use for lattepanda 1.0 or lattepanda alpha ?

DFRobot Support `Mod` → Sukma Firdaus • 2 years ago —

No, it can't. LP has matching screens. You can refer to https://www.dfrobot.com/ind...

⌃ • Reply • Share ›

Gaurav Kharge • 2 years ago —

Does the touchscreen function work when paired with Raspberry Pi 3B and Windows 10 IOT Core?

⌃ • Reply • Share ›

> **DFRobot Support** `Mod` → Gaurav Kharge • 2 years ago —
>
> It should be ok. We have not tested it with this system.
>
> ⌃ • Reply • Share ›

Mariel Tolibas • 2 years ago —

hi. where did you get or buy your HDMI port?

⌃ • Reply • Share ›

> **DFRobot Support** `Mod` → Mariel Tolibas • 2 years ago —
>
> There will be one HDMI port comes with this product. If you need a HDMI cable, check out this one:
> https://www.dfrobot.com/pro....
>
> ⌃ • Reply • Share ›

Marek Konopnicki • 2 years ago —

Hi I just got this screen, and the problem is : even if i shut down system the backlights are still working... I'm using LattePanda and Windows OS, is this possible to fix it. I need it for low power consumption project... ?

⌃ • Reply • Share ›

> **DFRobot Support** `Mod` → Marek Konopnicki • 2 years ago —
>
> What if you don't connect the USB cable? Is it possible that the USB port in LattePanda still have power if shut down.
>
> ⌃ • Reply • Share ›

Mark • 2 years ago —

Do you have to connect the usb on the screen at the same time as the hdmi interface for touchscreen to work?

⌃ • Reply • Share ›

> **DFRobot Support** `Mod` → Mark • 2 years ago —
>
> Yes, to active the touch screen, you need to connect the USB on the screen to your main board.
>
> ⌃ • Reply • Share ›

Ko-chin Chang • 2 years ago —

Do you sell just the board for this display for the existing 7" displays that were sent with the alpha panda bundles?

⌃ • Reply • Share ›

> **DFRobot Support** `Mod` → Ko-chin Chang • 2 years ago —
>
> Do you mean 7" display without capacitive touchscreen that is compatible with LP alpha? We don't have this kind of product at present, but will be released in the future.
>
> ⌃ • Reply • Share ›

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