



DFROBOT
DRIVE THE FUTURE



5" TFT-Display with Touchscreen V1.0

SKU:DFR0550

This is a 5" Raspberry Pi LCD touchscreen with 800*480 resolution and 108×64.8mm display area. The product supports Raspberry Pi DSI display interface and comes with a capacitive touch panel on its screen and supports 5 touch points. The special holes design on the back of the screen is convenient to directly install the Raspberry Pi in the product. There is no need to provide external power for the touchscreen as the Raspberry Pi power supply is adopted. In addition, the screen supports hardware backlight adjustment. The function can be realized by turning the potentiometer on the back of the display.

Features

- Capacitive Touchscreen, Support 5 TouchPoints.
- Raspberry DSI Direct Driver

Specification

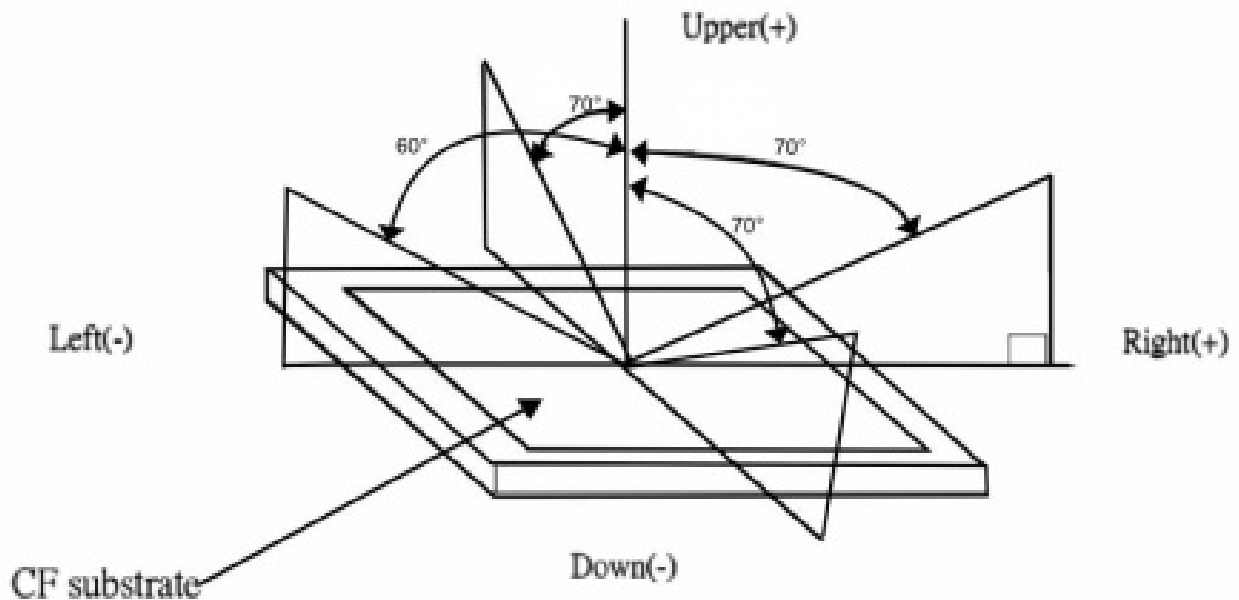
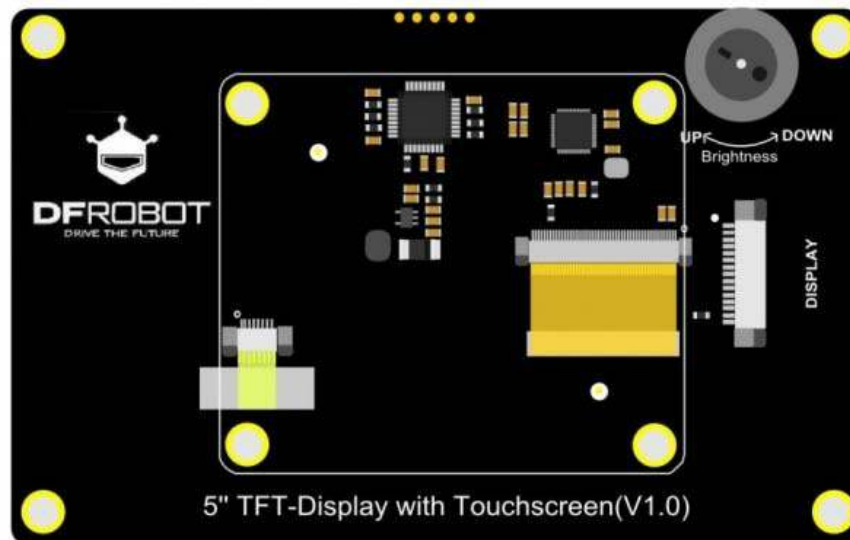


Fig.1 Definition of Viewing Angle

- Operating Voltage: 3.3V (Supplied by Raspberry Pi display interface)
- The Maximum Operating Current: 320mA
- Screen-off Current: 100mA
- Resolution: 800*480
- Video Interface: Raspberry Pi DSI
- Number of Touch Points: 5
- Viewing Angle: 60°/70°/70°/70°
- RGB888-16 Mega True Color
- Refresh Frequency: 60Hz
- Luminous Efficiency: 280 cd/m²
- Operating Temperature: -20°C~70°C
- Dimension: 121mm×76mm / 4.76" × 2.99"
- Mounting Hole Size: M2.5
- Outside Mounting Hole Position: 113mm × 68mm/ 4.45" × 2.68"
- Inside Mounting Hole Position: 58mm × 49mm/ 2.28" × 1.93"

Board Overview



The back of the 5" touchscreen

- DISPLAY interface can be connected to Raspberry Pi's DISPLAY interface via FPC wiring.
- The Touchscreen's brightness can be adjusted via a potentiometer.

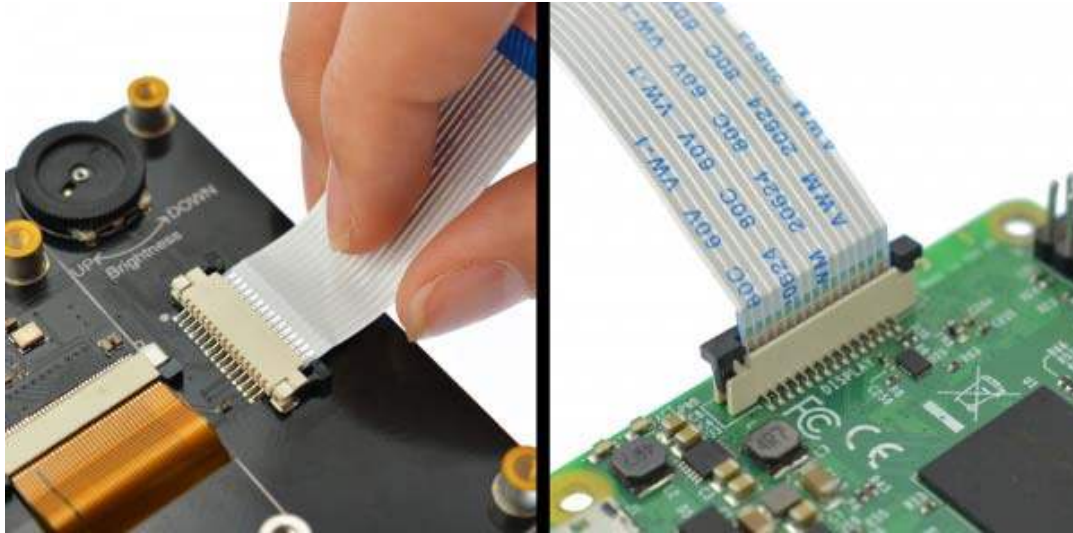
Tutorial

Step 1. Insert an SD card that with a Raspberry Pi system into Raspberry PI.



Insert SD card

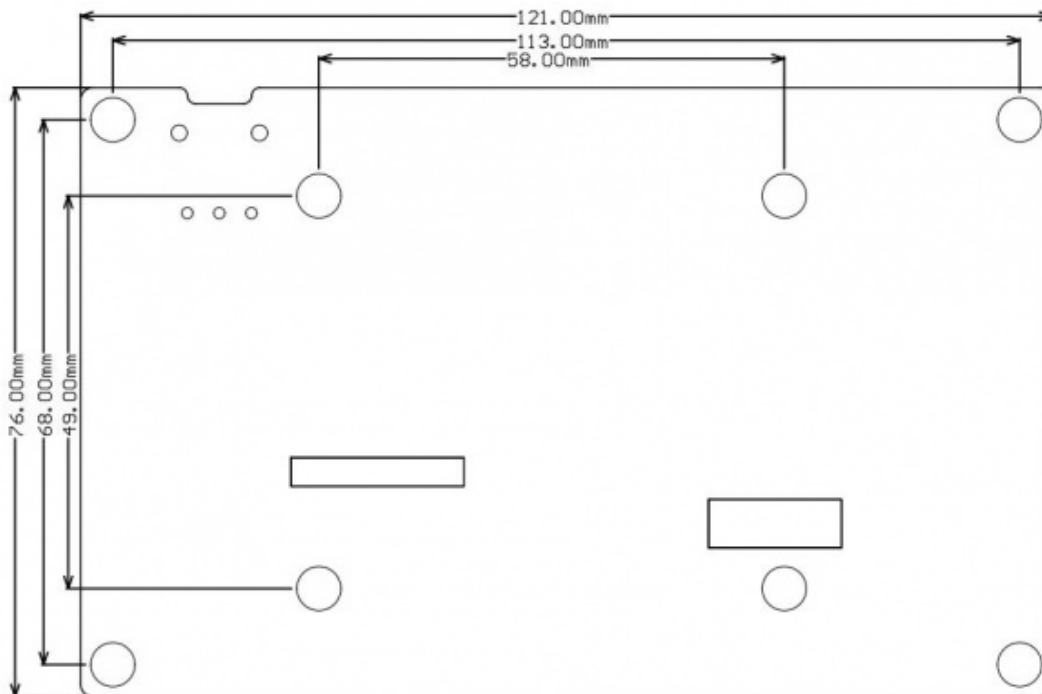
Step 2. Connect display interface of the 5" touchscreen to that of Raspberry Pi via a provided FPC wiring.



Connect DISPLAY interface

Step 3. Connect Raspberry Pi to the power supply, and then you can use the touchscreen.

Dimension Diagram



5" touchscreen dimension diagram, click to enlarge