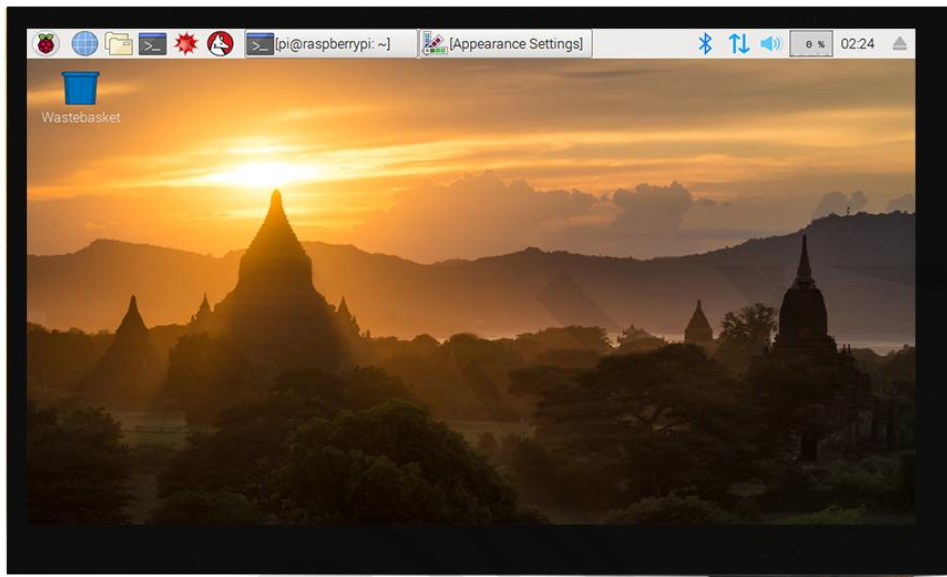


MPI7010

MPI7010 LCD Product manual



To ensure safe use of this product, please read this manual
carefully

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1. Summary description

1.1. Feature description

Own shell

- Hard iron shell

7inch IPS full Angle display

- The viewing Angle is large

- true color

- Dynamic picture quality is excellent

1024X600 Resolution

- HD Vision

- Display is very delicate

- Software settings, resolution can be increased to 1920X1080

New touch panel

- Tempered glass touch panel

- Hardness up to 6H, more durable and more scratch resistant

High sensitivity capacitive touch screen

- Accurate touch

- Supports up to 5 touch points

HDMI video input interfaces

- High definition video display

audio output

- Stereo dual speaker output shock sound

- 3.5mm external audio interface

Multifunctional leave Switch

- Support brightness and volume adjustment

- Support menu settings

Support multiple device access

- Can connect to mainstream development boards such as Raspberry Pi, Banana Pi, BB Black, etc

- Can connect to mainstream game consoles such as PS4, Xbox360, Switch, etc

- Can connect to mainstream TV boxes and digital cameras (display only)

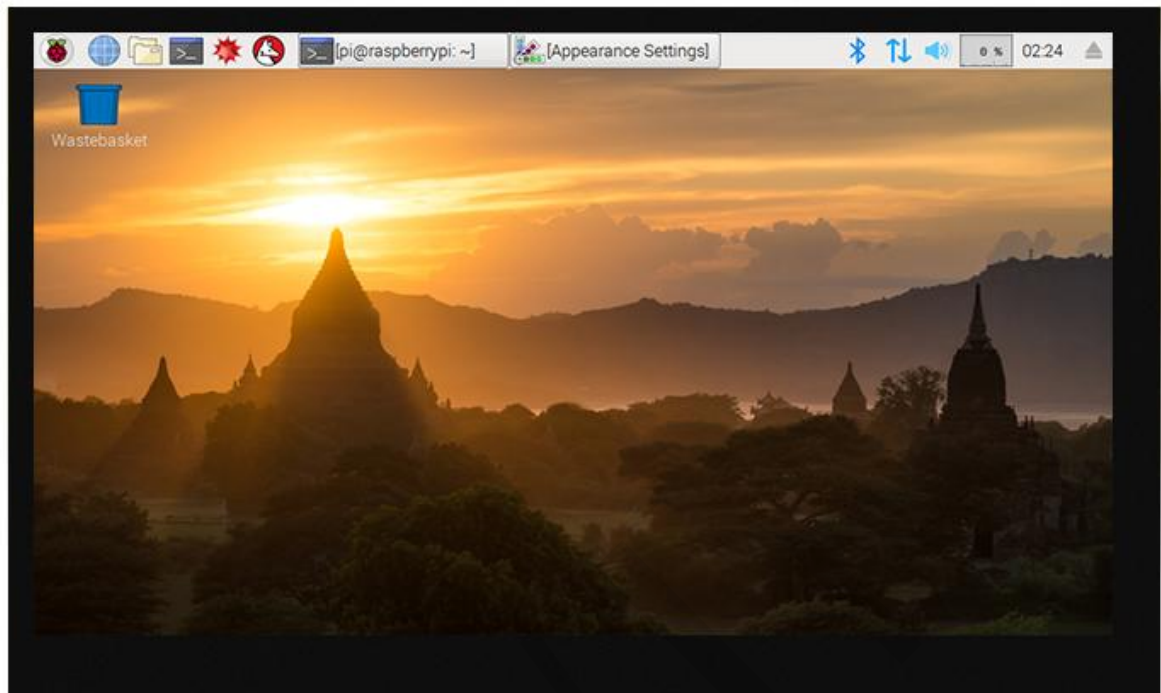
Supports multiple system displays

- Support systems such as Raspbian, Kali Linux, Ubuntu, Kodi, Win10 IOT, and touch free drive

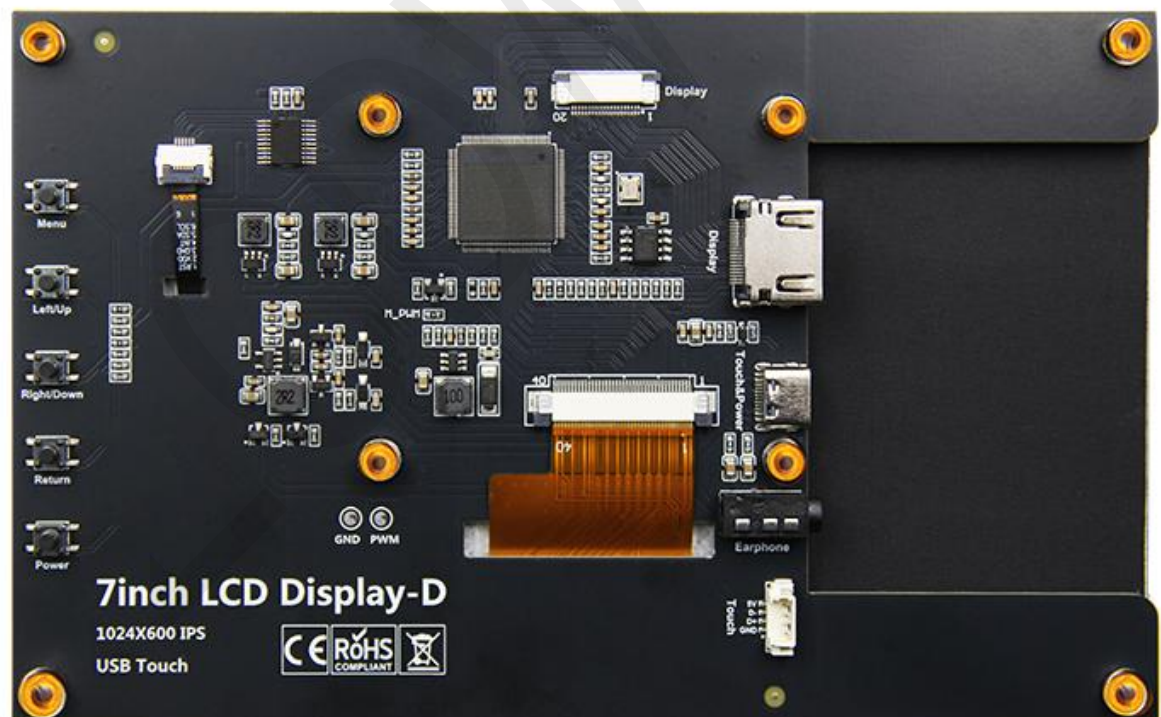
- Support Win7/8/10/11 and other systems, touch free drive

CE and RoHS certified

1.2. Product image



TOP



Bottom

2. Parameter

2.1. LCD Parameter

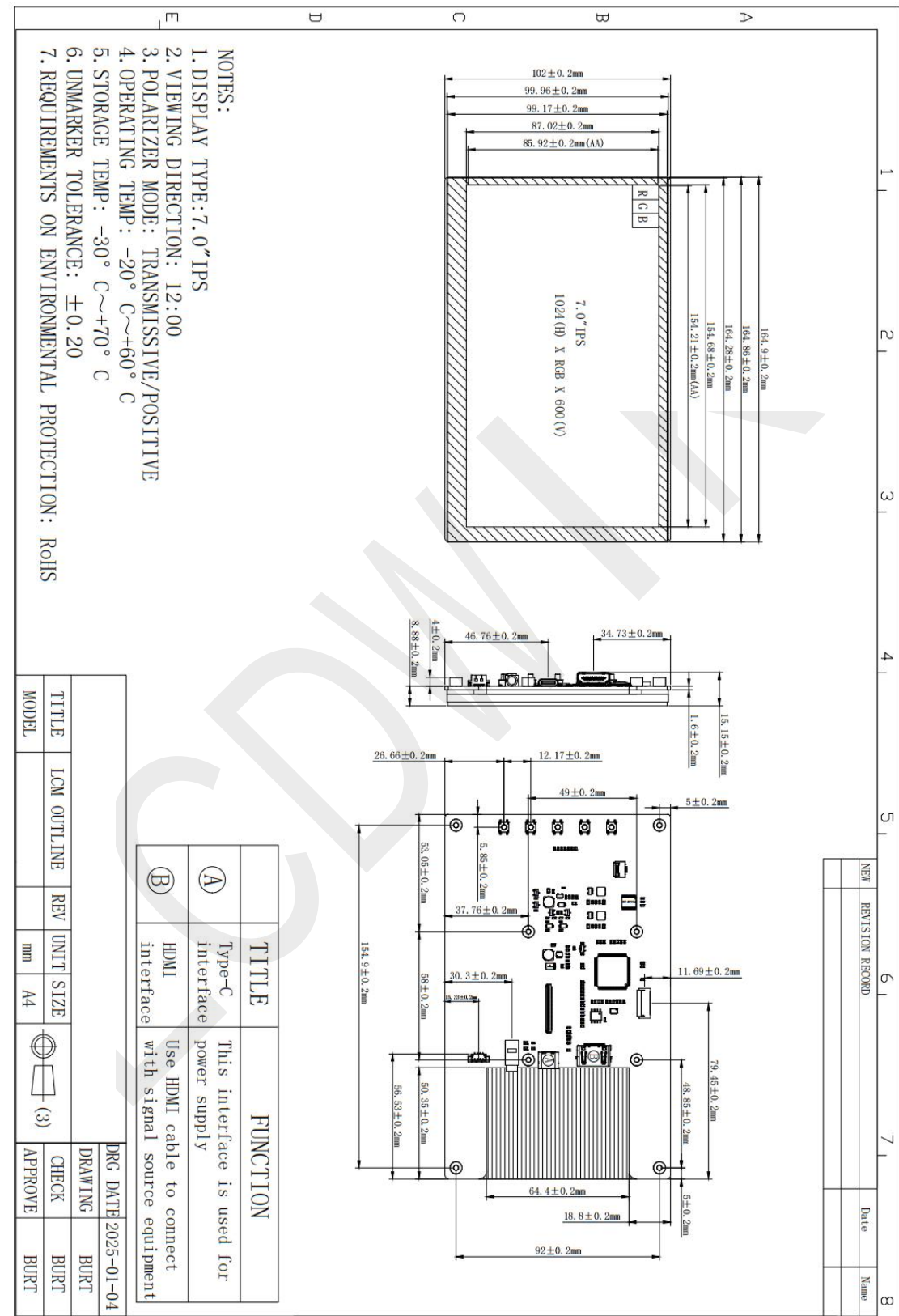
Item	Parameter	Unit
Panel Size	7.0	inch
Panel Type	IPS	-
Resolution	1024*600	pixels
Active Area	154.21 x 85.92	mm
Pixel Pitch	0.1461 x 0.1462	mm
View Angle	170	deg
Luminance(TYP)	320	cd/m2
Backlight Type	LED	-
Operation Temperature	-20~60	°C
Storage Temperature	-30~70	°C
Outline Size	164.90x102.00x15.15	mm
Touch Screen Type	Capacitive Touch Screen	-

2.2. Other Parameter

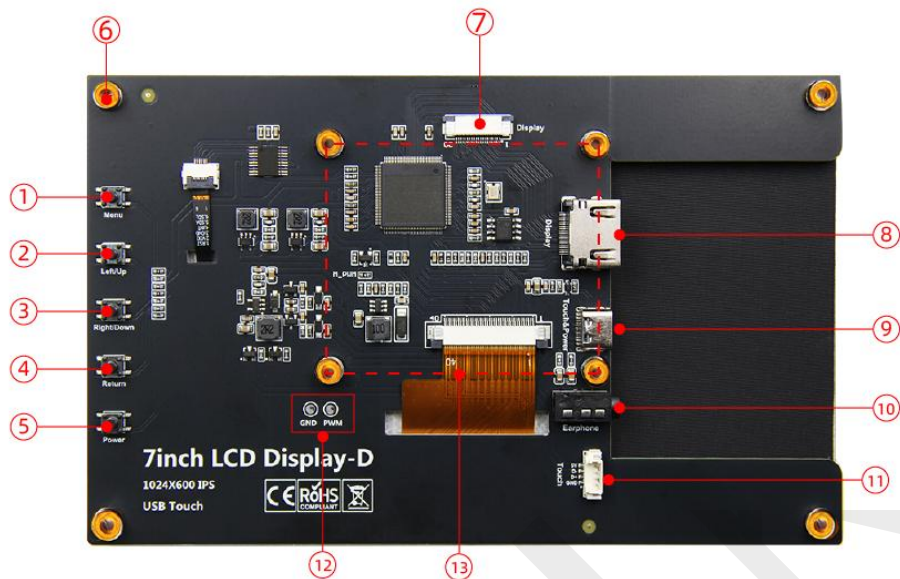
Item	Parameter	Unit
SKU	MPI7010	-
Total Power	5.0	W
Weight(including package)	2.55	g
Package Size	391	mm

3. Size chart

3.1. Size chart



4. Interface and switch



- | | |
|--------------|-----------------------------------|
| ① Menu | ⑦ 20P-FPC-0.5mm Display |
| ② Left/Up | ⑧ HD-MI Input |
| ③ Right/Down | ⑨ Touch&Power Type-C |
| ④ Return | ⑩ Earphone socket 3.5mm Earphone |
| ⑤ Power | ⑪ 4P-1.25mm Touch Expansion&Power |
| ⑥ M2.5 *4 | ⑫ PWM Expansion |
| | ⑬ RaspberryPI mounting hole *4 |

4.1. Interface description

Interface	Functional description
HDMI	For HDMI high-definition video input. Connect the main device with an HDMI cable.
POWER/Touch	Use a TypeC-USB cable to connect to the signal source for touch and power.
Earphone	Use headphone jack and device connection, for audio reception
Touch	For touch and power
Display	To connect the mainboard and LCD display for HDMI transmission
PWM	PWM interface for external use

4.2. Switch description

Symbol	Functional description
Power	Turn on or off the LCD display to reduce power consumption
Return	Return to the previous level when setting the display menu
Right/Down	Directional key -> (Backlight adjustment key)
Left/Up	Direction key <- (Backlight adjustment key)
Menu	Display OSD setup menu / select key

4.3. Touch

	Interface	Functional description
1	5V	Power pin, providing 5V power
2	D+	Data transmission pin, used to transmit differential data signals
3	D-	Data transmission pin, used to transmit differential data signals
4	GND	Ground pin

4.4. Display

	Interface	Functional description
1	NC	NC
2	RX0_N	Data transmission pin, used to transmit the differential data signal of channel 0
3	GND	Ground pin
4	RX0_P	Data transmission pin, used to transmit the differential data signal of channel 0
5	RX1_N	Data transmission pin, used to transmit the differential data signal of channel 1
6	GND	Ground pin

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7	RX1_P	Data transmission pin, used to transmit the differential data signal of channel 1
8	RX2_N	Data transmission pin, used to transmit the differential data signal of channel 2
9	GND	Ground pin
10	RX2_P	Data transmission pin, used to transmit the differential data signal of channel 2
11	RXC_P	Clock transmission pin, used to transmit differential clock signals
12	GND	Ground pin
13	RXC_N	Clock transmission pin, used to transmit differential clock signals
14	NC	NC
15	NC	NC
16	HDMI SCL	IIC clock line, it provides clock signal for data transmission
17	HDMI SDA	IIC data line, used for actual data transmission
18	GND	Ground pin
19	HDMI 5V	Power pin, providing 5V power
20	HDMI HPD0	Hot plug detect signal pin in HDMI interface

5. Connect and use

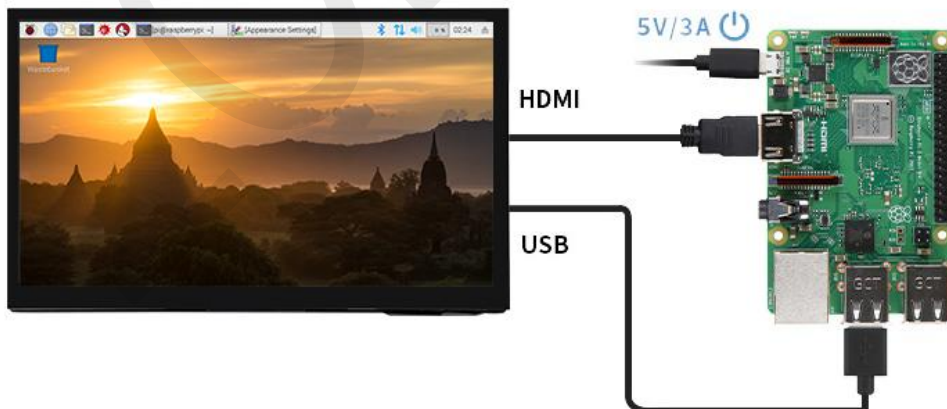
5.1. Connect PC/Laptop

Connect to PC HDMI



5.2. Connect Raspberry Pi

Connect to Raspberry Pi 3B+



Connect to Raspberry Pi 4B



Connect to Raspberry Pi 5



5.3. Connect Jetson Nano

Connect to Jetson Nano

