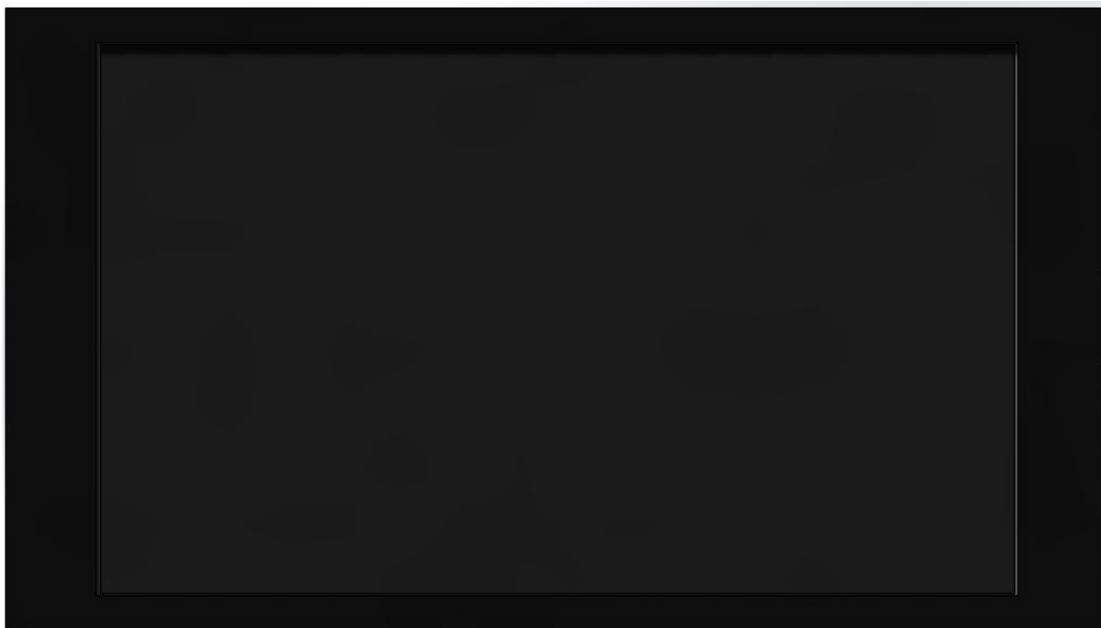


MPC4008

4.0-inch IPS display module Product specification sheet



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REV	Record	日期
V1.0	First Release	2026-5-8

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1. overview

1.1. picture presentation

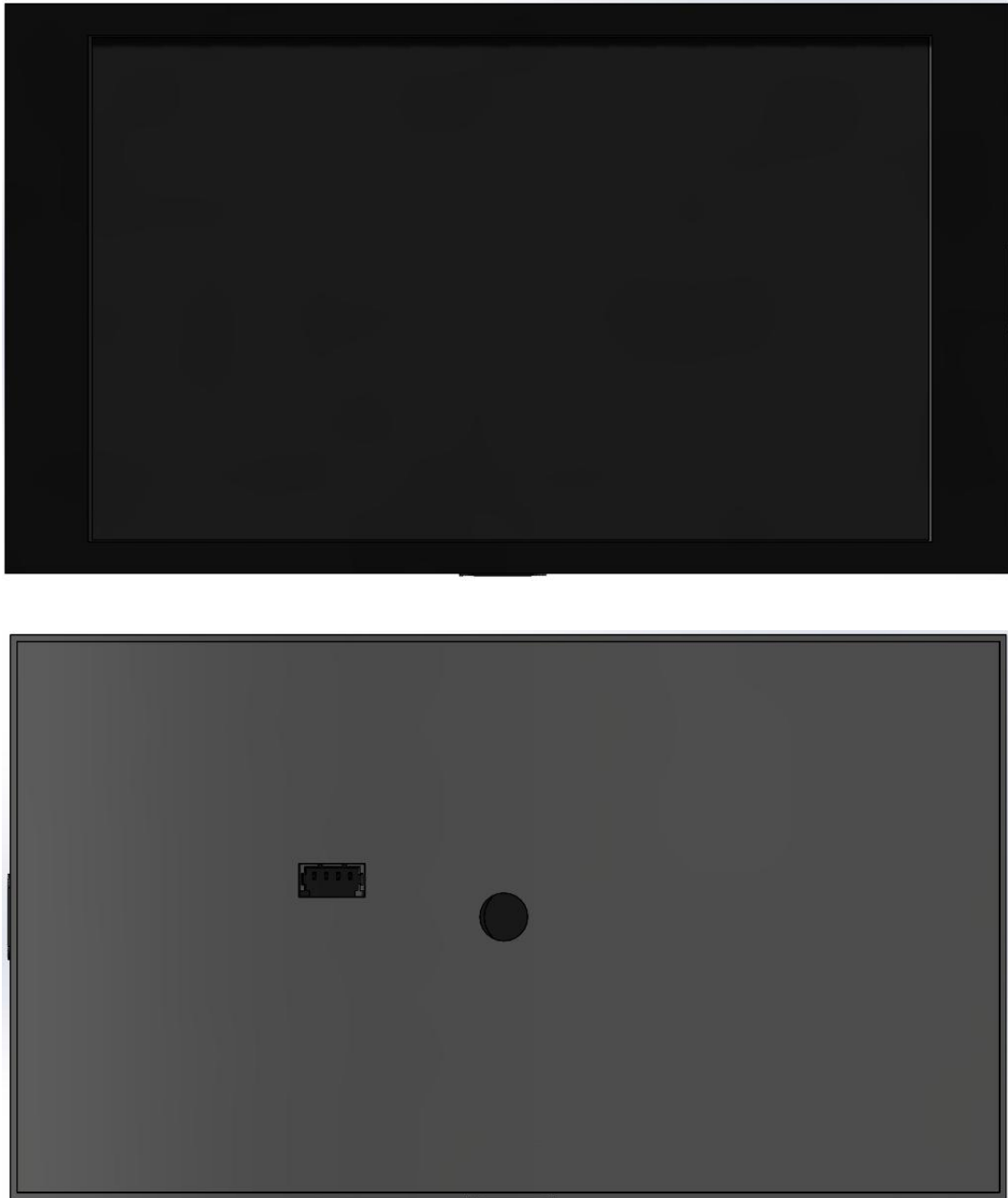


Figure 1.1 MPC4008 product drawing

1. 2. parts list

2. product features

2.1. Feature description

- 4.0-inch IPS color screen with a resolution of 480x800, providing rich display colors
- Hardened iron casing
- Wide viewing angle
- True colors, excellent picture quality, high-definition viewing range, and very detailed display
- The standard TYPE-C/4pin-1.25 female socket interface facilitates power supply.

3. Product Parameter

3.1. LCD screen parameters

project	parameter	unit
screen size	4.0	inch
Screen type	IPS TFT	—
Effective display area	86.4(W)x51.84(H)	mm
resolution ratio	800*480	—
length-width ratio	16:9	—
display port	Type C/4-pin flat cable	—
pixel size	0.108(H)x0.108(W)	mm
visual Angle	ALL 0' CLOCK	deg
Backlight brightness (typical value)	310	cd/m ²
Backlight type	8 leds series	—

operating temperature	-10~60	℃
storage temperature	-20~70	℃

3.2. dimension parameters

project	parameter	unit
The size of the LCD screen	97.8(W)x57.34(H)x3.35(D) (Without the wiring and adhesive tape)	mm
Module size and shape	103.75(W)x58.74(H)x9.0(D)	mm

3.3. electrical parameters

project	parameter	unit
working voltage	5.0	V
Backside current	20	mA
total current	210	mA
power dissipation	1.05	W

3.4. other parameters

project	parameter	unit
SKU	MPC4008	-
Power supply interface	TYPE-C/4-pin 1.25 female connector	-
Weight (including packaging)		g

4. Product Interface

4.1. Interface Function Description

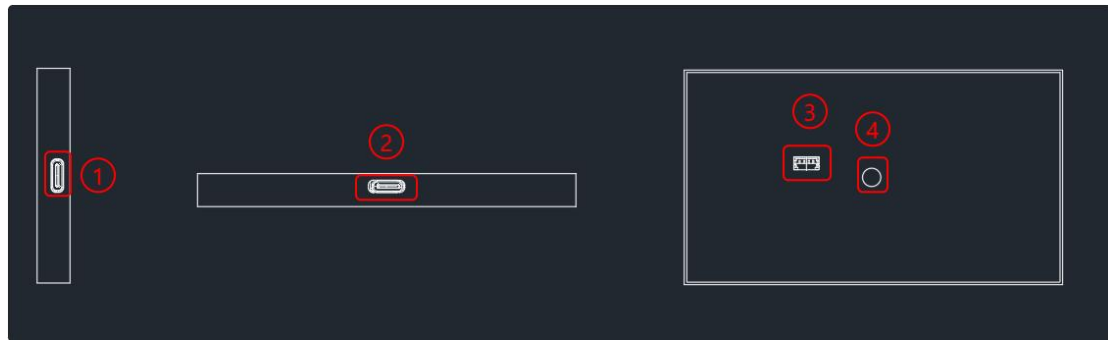
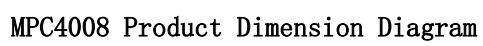


Figure 4.1 Product Interface Diagram

Interface Name	function declaration
①Type C	Used for power supply and display interface
②Type C	
③4Pin netlist	Used for power supply and display interface
④Hole (M4 nut)	Used for fixing the back panel of the secondary screen

5. Product dimensions diagram

5.1. MPC4008 Product Dimension Diagram



6. How to connect the computer

6.1. Method One (Connecting to the computer via a Type-C cable):

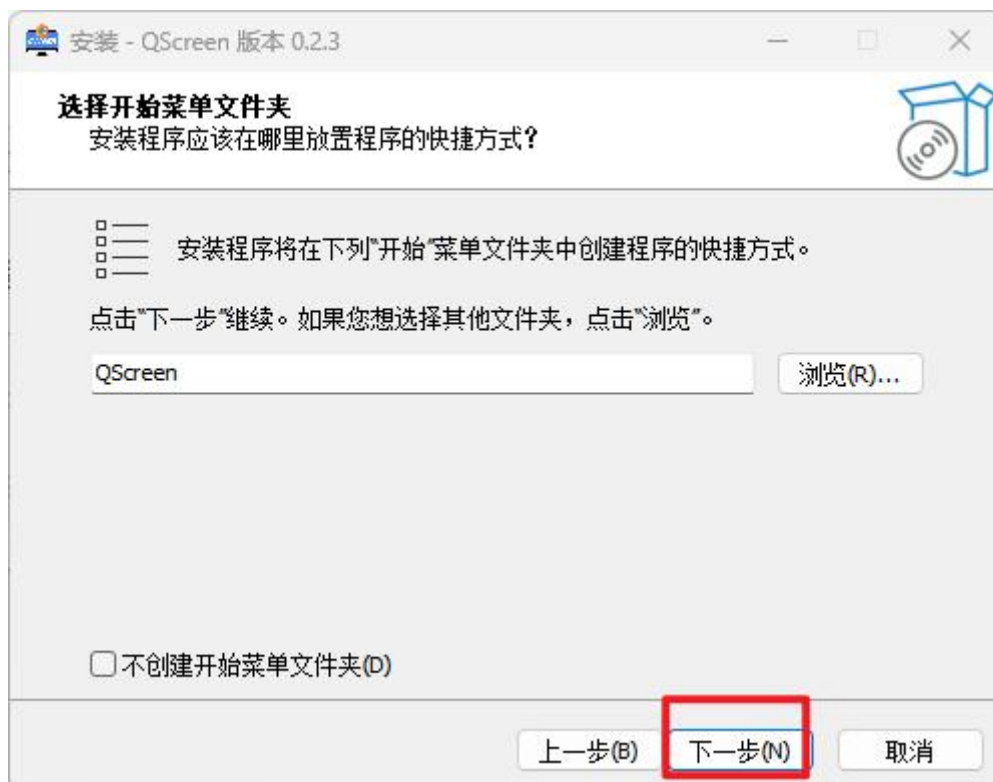
step 1: The secondary screen is connected to the USB interface of the computer main unit via a Type-C cable.

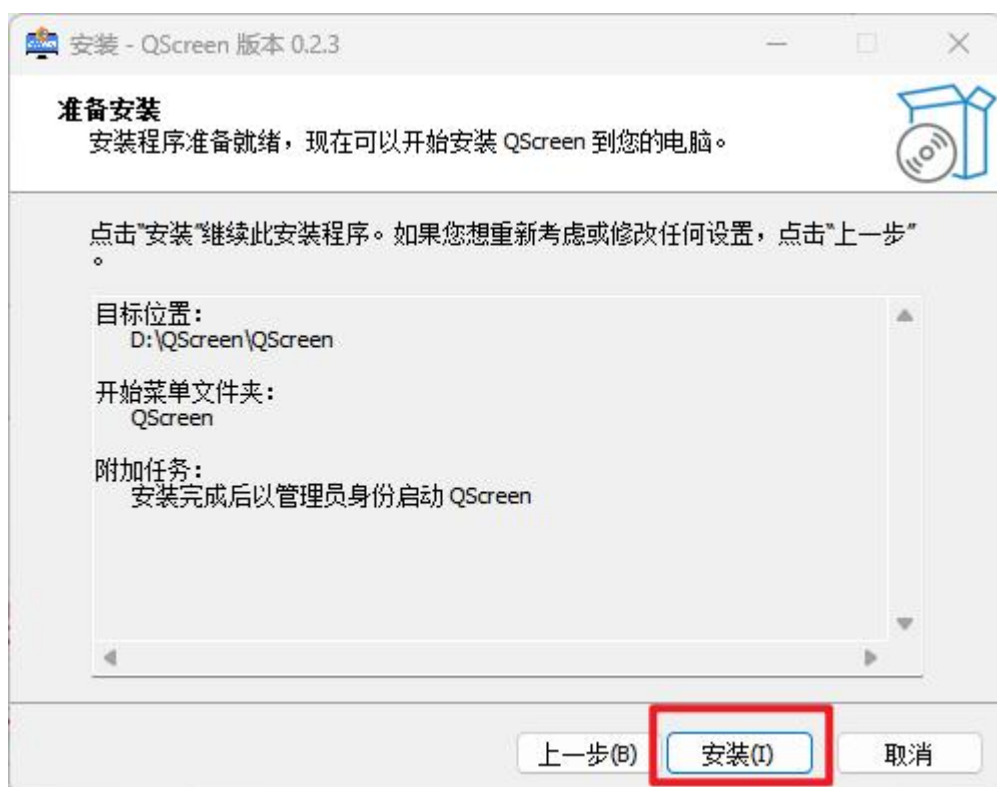
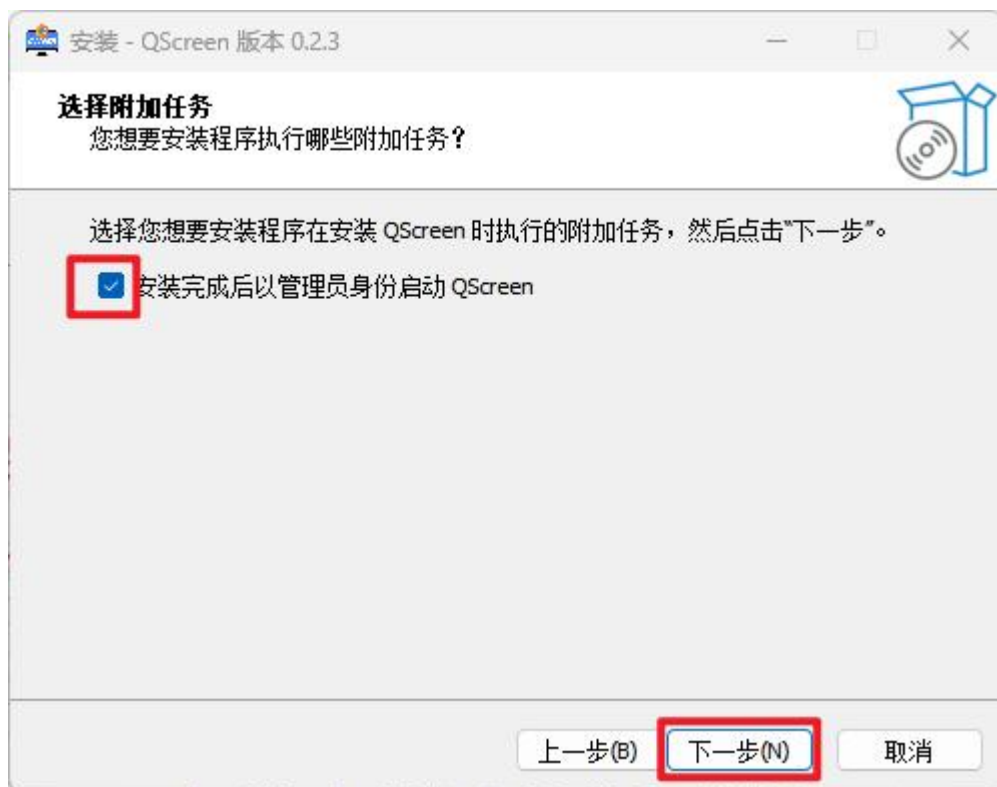
step 2: Go to <https://www.lcdwiki.com/zh/Themes> and download the QScreen software. Then complete the installation according to the "How to Install and Use QScreen" document.
(For more software usage instructions, see "How to Quickly Modify Themes in QScreen Editor" and "Advanced: Introduction to Theme Editor Usage"))



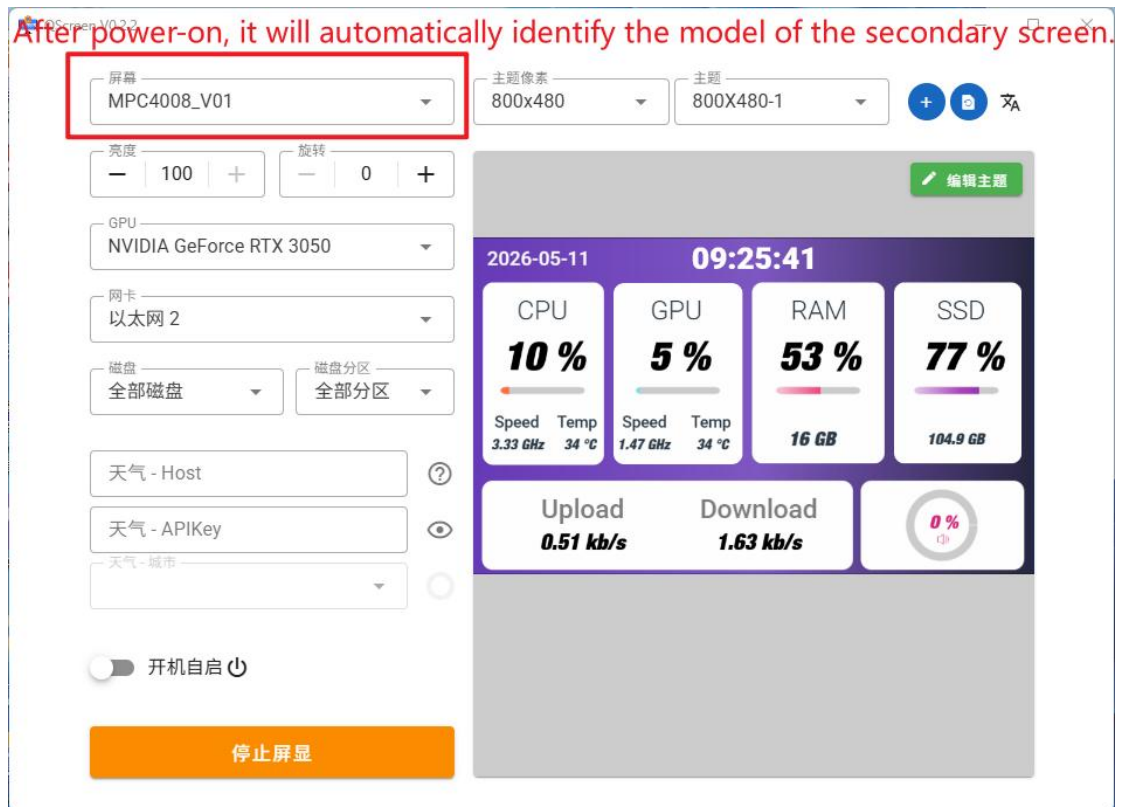
Open the downloaded QScreen application and double-click to start the installation process. If the antivirus software issues a warning during the installation, simply select "Continue Installation".

Choose the installation location by yourself

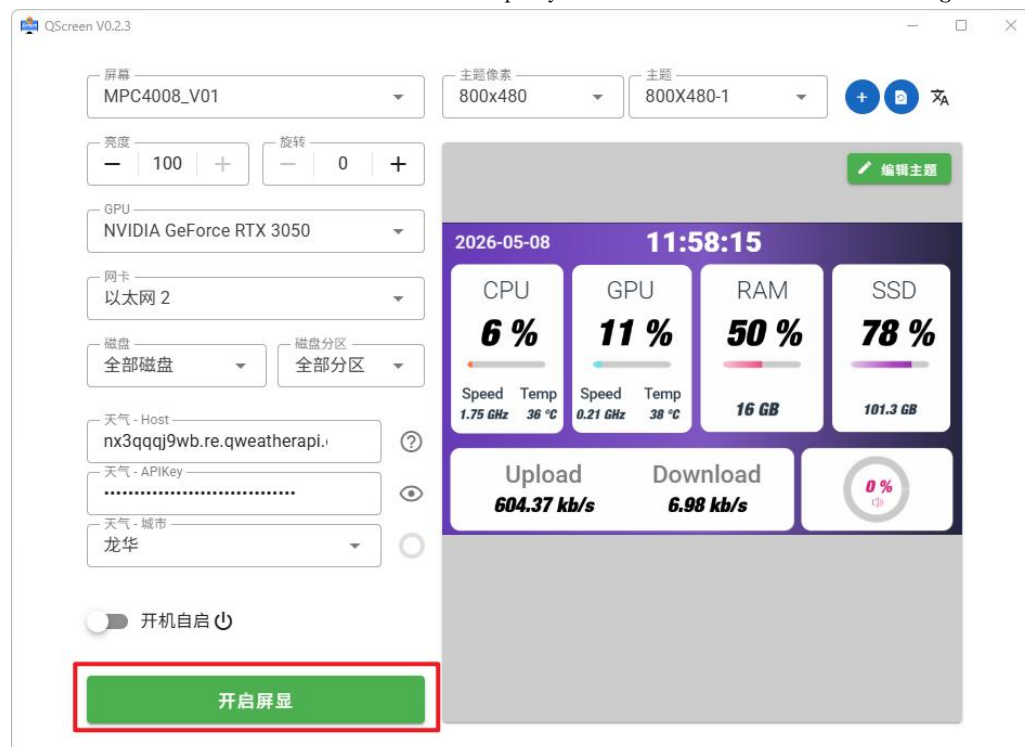




step 3:



Click to activate the screen display to start the screen showing.



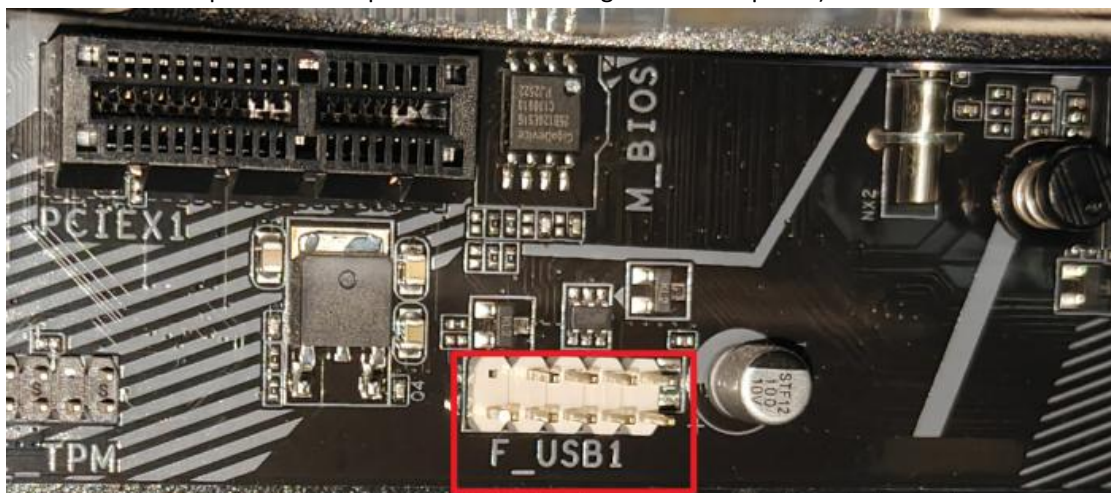


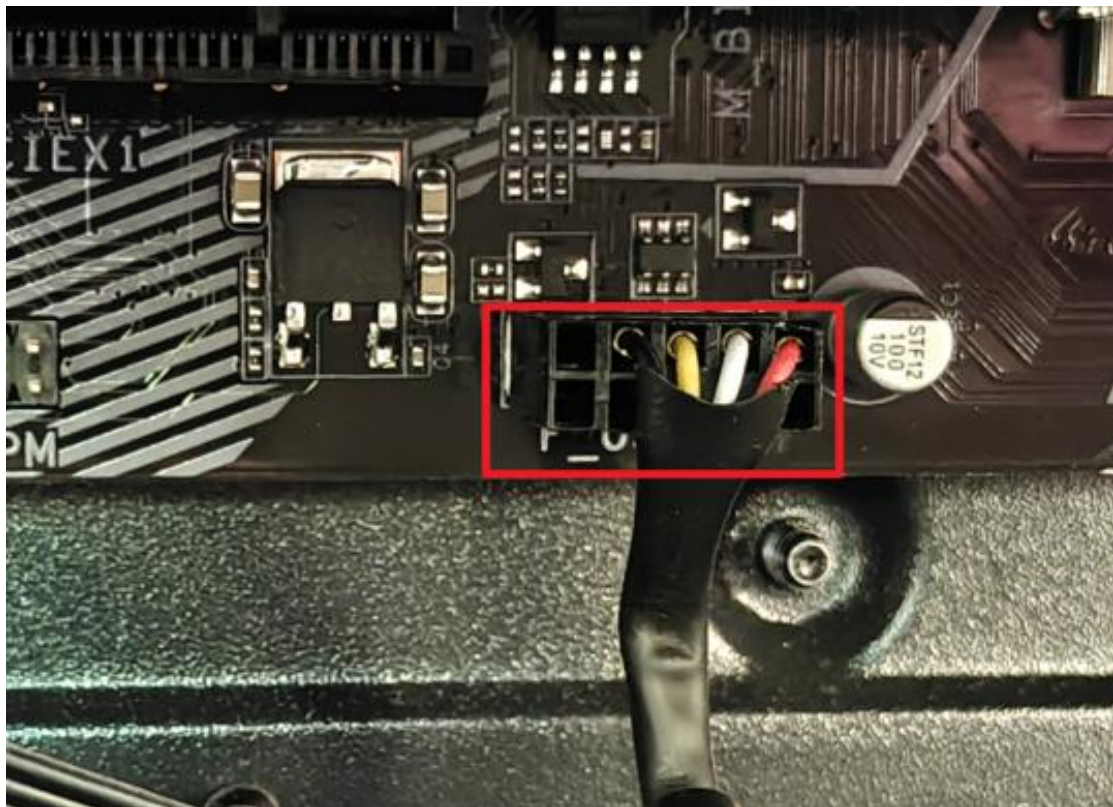
6.2. Method Two (Connecting to the computer motherboard via 9-pin - 2.54mm to 4-pin - 1.25mm connection):

- 1、Prepare the wire: Remove the matching 9-pin - 2.54mm to 4-pin - 1.25mm adapter cable.



2、 Internal motherboard connection of the computer: Align the 9-pin female connector of the cable with the pins on the motherboard marked as USB 2.0 or F_USB. Pay attention to the direction and insert it smoothly. Do not forcefully reverse the insertion. (It is strongly recommended to perform the operation after turning off the computer.)





3、Secondary screen connection: Align the 4-pin male connector of the cable with the corresponding interface on the secondary screen and insert it firmly into place.





4、The subsequent steps are the same as those in Method One.

7. matters need attention

7.1. Safe use of the product

- Do not use violent pressing or hitting on the screen to avoid damaging it.
- Do not use hard objects to scratch the screen to prevent scratching it.
- Do not place heavy items on the product to avoid damaging the screen.
- Please keep the product clean. Do not drip water or oil onto the screen.
- Please use a clean, soft, and dry cloth to wipe the screen. Do not spray water or cleaning agents directly onto the screen.
- Do not disassemble the product randomly to avoid damaging the screen or the wiring.
- Do not place the product in a high-temperature or high-humidity

environment.

- Please place the product upright on a stable surface to avoid damaging it due to falling.
- Please use the correct voltage to connect the product to avoid damaging it due to excessive voltage.
- When using the product, do not touch the components or pins with wet hands to avoid short circuits and damage to the product.
- When the product is not in use for a long time, please unplug the power supply.

7.2. Frequently Asked Questions (FAQ)

- Question 1: The product does not respond upon power-on and the screen does not light up.

analysis:

First, make sure that the Type C interface is properly connected. Then, check the voltage of the power supply interface and the contact condition of the power supply cable.

If the backlight still doesn't respond after following the above steps, it can be presumed that there might be a fault in the hardware circuit.

- Question 2: The backlight of the product lights up when powered on, but there is no display screen.

analysis:

A bright backlight indicates that the module has been powered on normally. Check if it is due to insufficient power supply voltage or if the host computer has not clicked the start screen display. If necessary, use necessary tools such as multimeters, oscilloscopes, or logic analyzers to analyze and test the signals, and contact our technical staff for assistance.

- Question 3: The upper computer shows that there is no available screen.
analysis:

Check if the backlight is on, then check if the device manager detects the screen connection. If after plugging and unplugging several times or changing the computer interface and data cable, it still cannot be detected, please contact our technical staff for assistance.

- Question 4: After clicking to activate the screen display, the screen does not light up.

analysis:

First, check if the backlight is on. If it's not on, it might be due to insufficient power supply. Replace the computer interface or data cable and try again. Check if the brightness is too low, whether the screen pixels are correct, and if the theme is selected.