



PRODUCT SPECIFICATION

LCD_USB_HUB

Version: V1.0

Update history:

Version	Release time	Description
V1.0	2025.11.5	First official release

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Chapter 1 Product Description

I. Overview

The USB_HUB expansion board is a USB solution specifically designed for LCD products, capable of instantly expanding one USB port to four, effectively resolving interface limitations.

II. Features

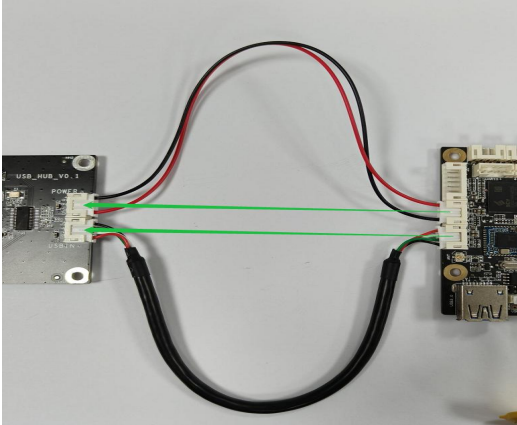
- Plug and play for convenience and efficiency. Users can use it directly without installing drivers or performing complex settings, greatly improving the user experience and work efficiency, and meeting the instant needs of "on-demand and scalable".
- Interface expansion enables users to connect multiple peripherals (e.g., USB drives, keyboards, mice, printers) simultaneously, forming the foundation for multifunctional applications.
- Address pain points and enhance value. Effectively resolve the issue of insufficient interfaces. The product is not merely a simple addition of features, but a direct and effective solution to the common problem of 'interface scarcity.'
- Specialized customization with reliable compatibility. Tailored solutions for LCD products, optimized in electrical compatibility, structural dimensions, and signal interference to ensure stable connectivity and reliability, avoiding potential compatibility issues with generic equipment.

Chapter 2 Product Specifications

I. Basic Parameters

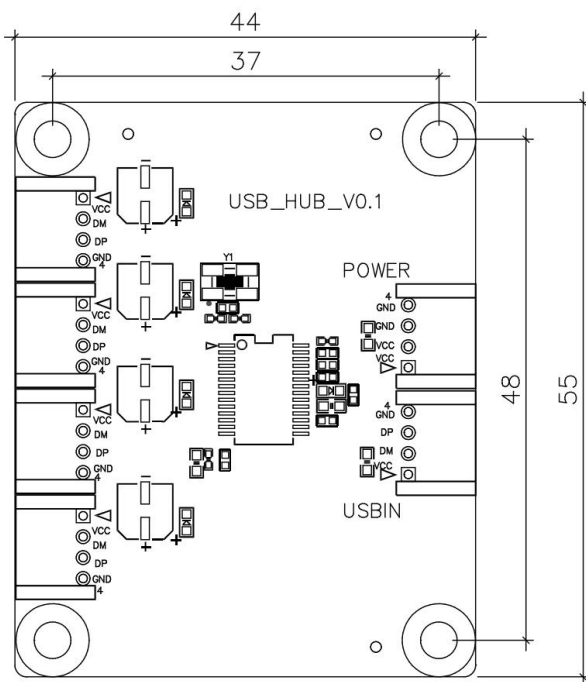
USB joggle	1 USB IN, 1 POWER, 4 USB OUT
storage humidity	10% ~ 90%, no condensation
storage temperature	-40°C~70°C
working temperature	-10°C~60°C

Note: To ensure proper operation of the HUB board, both USB IN and POWER ports must be connected simultaneously. The leads from these ports should be connected to the 4-pin USB port on the control card. When wiring, ensure the cable sequence matches the silk-screen markings on the ports. The wiring is shown in the figure below:

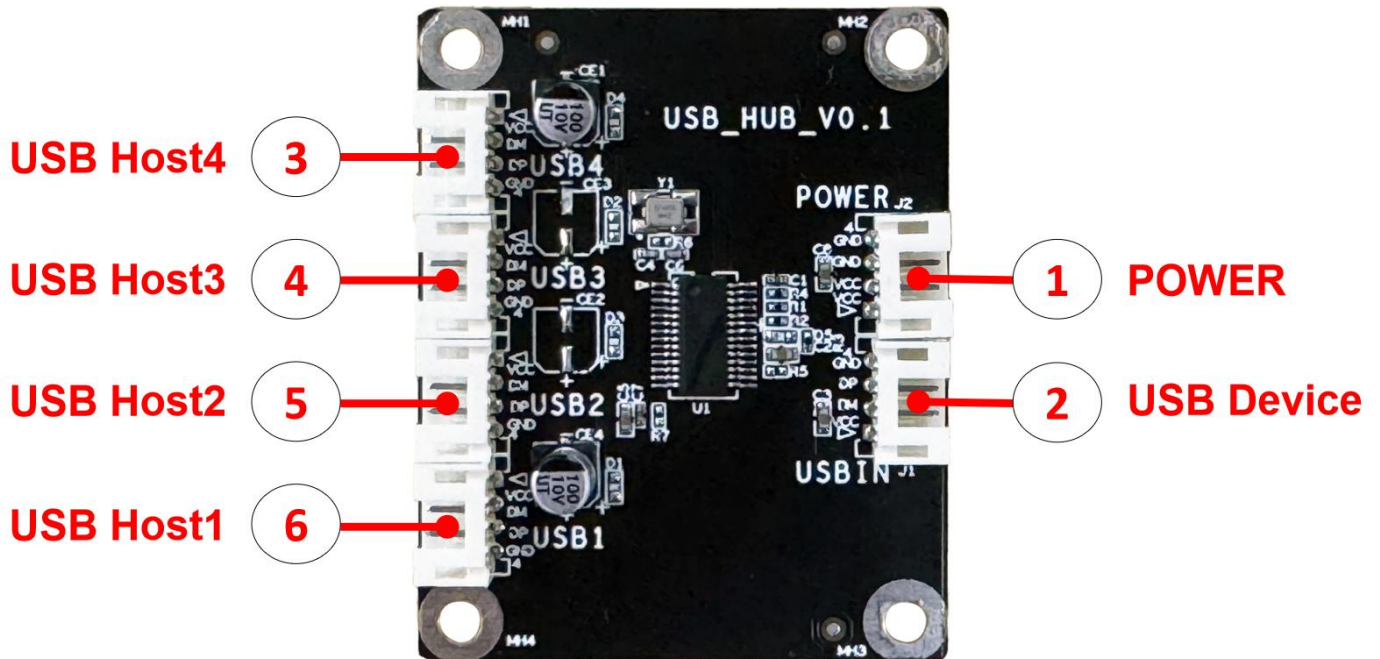


II. Product Dimensions and Specifications

Bare board dimensions (mm) and screw hole specifications: $\phi 3.2\text{mm} \times 4$ PCB

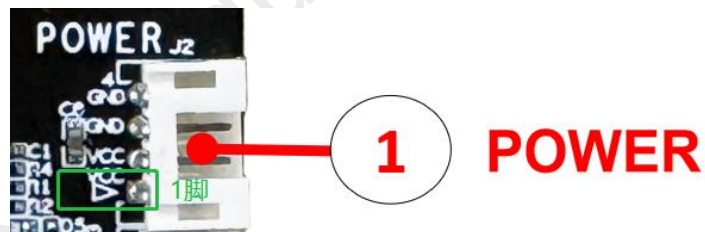


III. Product Interface Diagram



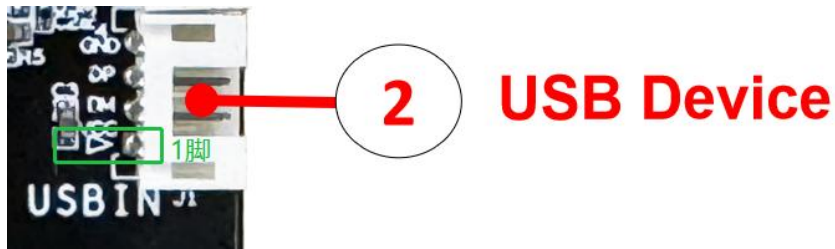
IV. Interface Parameter Description

1. POWER interface (4pin*2.0mm)



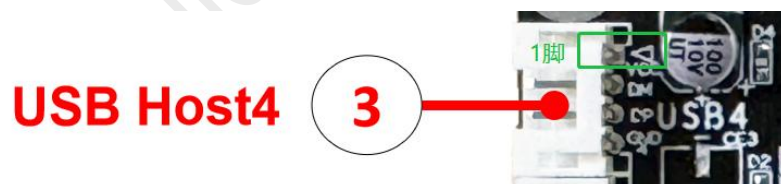
No.	Definition	Attribute	Description
1	VCC	source	5V input (MAX 5.5V)
2	VCC	source	5V input (MAX 5.5V)
3	GND	earth wire	earth wire
4	GND	earth wire	earth wire

2. USB IN port (4pin*2.0mm)



No.	Definition	Attribute	Description
1	VCC	source	5V output
2	DM	Input/Output	DM
3	DP	Input/Output	DP
4	GND	earth wire	earth wire

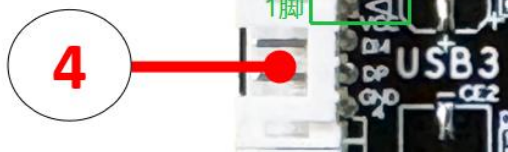
3. USB 4 port (4pin*2.0mm)



No.	Definition	Attribute	Description
1	VCC	source	5V output
2	DM	Input/Output	DM
3	DP	Input/Output	DP
4	GND	earth wire	earth wire

4. USB 3 port (4pin*2.0mm)

USB Host3



No.	Definition	Attribute	Description
1	VCC	source	5V output
2	DM	Input/Output	DM
3	DP	Input/Output	DP
4	GND	earth wire	earth wire

5. USB 2.0 port (4pin*2.0mm)

USB Host2



No.	Definition	Attribute	Description
1	VCC	source	5V output
2	DM	Input/Output	DM
3	DP	Input/Output	DP
4	GND	earth wire	earth wire

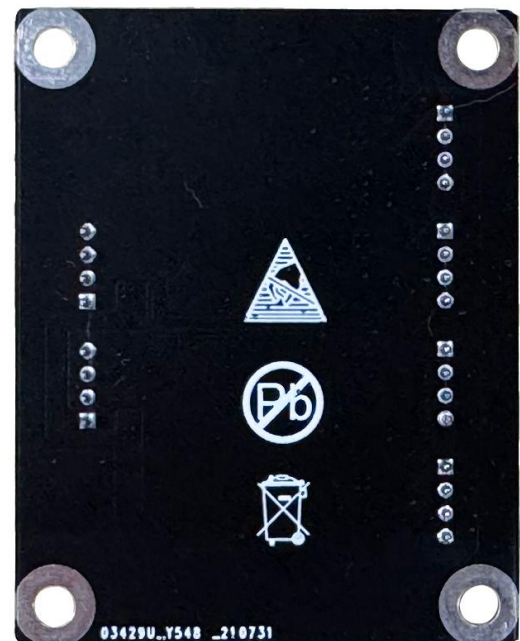
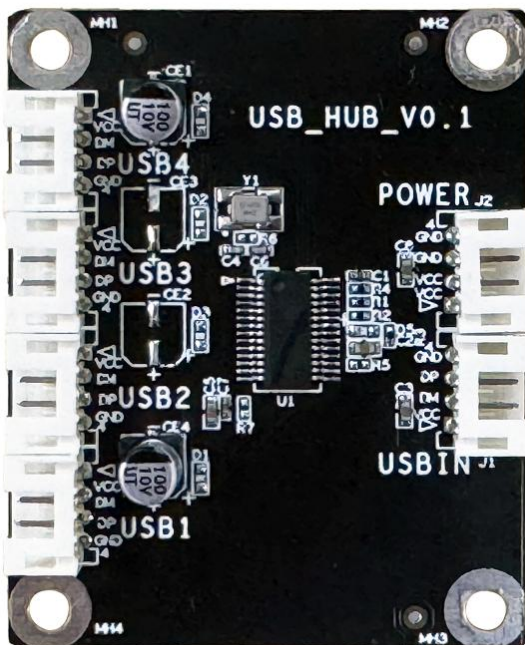
6. USB 1 port (4pin*2.0mm)

USB Host1



No.	Definition	Attribute	Description
1	VCC	Source	5V output
2	DM	Input/Output	DM
3	DP	Input/Output	DP
4	GND	Earth wire	Earth wire

Chapter 4 Appendix: Product Appearance



Note:

The product labels are affixed for sales purposes. Note that discrepancies between the product images in the specifications and the actual product are not indicative of counterfeit or substandard goods. For inquiries, please contact our for confirmation.