



ELECROW ESP32 Display Compatible LCD Touch Screen User Manual

[Home](#) » [ELECROW](#) » ELECROW ESP32 Display Compatible LCD Touch Screen User Manual 

Contents

- [1 ELECROW ESP32 Display Compatible LCD Touch Screen](#)
- [2 Product Information](#)
- [3 Package List](#)
- [4 Screen Buttons and Interfaces](#)
- [5 Product Usage Instructions](#)
- [6 Initial Setup](#)
- [7 Parameters](#)
- [8 Expansion Resources](#)
- [9 Safety Instructions](#)
- [10 Contact Info:](#)
- [11 Frequently Asked Questions \(FAQ\)](#)
- [12 Documents / Resources](#)
 - [12.1 References](#)
- [13 Related Posts](#)



ELECROW ESP32 Display Compatible LCD Touch Screen

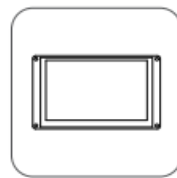


Product Information

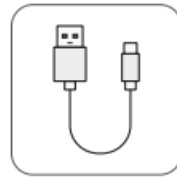
Specifications

- **Size:** 2.8, 3.5, 4.3, 5.0, 7.0 inches
- **Resolution:** Varies by size (240*320 to 800*480)
- **Touch Type:** Resistive Touch (Pen included for some sizes)
- **Main Processor:** ESP32-WROOM-32-N4 or ESP32-S3-WROOM-1N4R2/1N4R8
- **Frequency:** 240 MHz
- **Flash:** 4MB
- **SRAM:** 520KB to 512KB
- **ROM:** 448KB to 384KB
- **PSRAM:** 2MB to 8MB
- **Display Driver:** ILI9341V, ILI9488, NV3047, EK73002ACGB
- **Screen Type:** TFT
- **Interface:** UART0, UART1, I2C, GPIO, Battery
- **Speaker Jack:** Yes
- **TF Card Slot:** Yes
- **Color Depth:** 262K to 16M
- **Active Area:** Varies by size

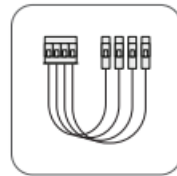
Package List



1x
ESP32 Display



1x
USB-A to Type-C Cable



1x
Crowtail/Grove to 4pin DuPont Cable

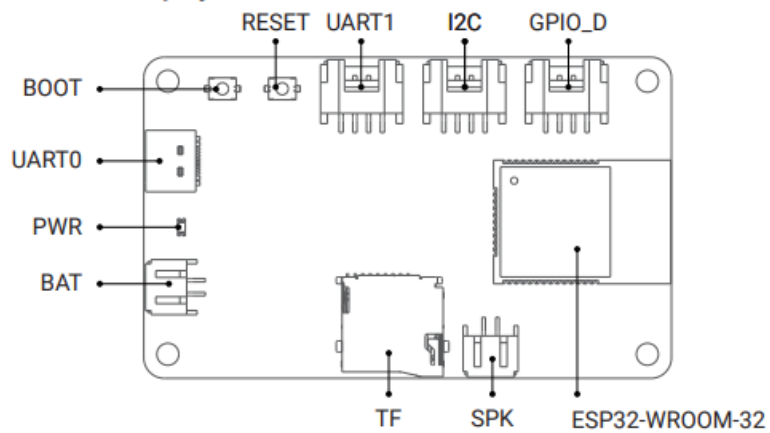


1x
Resistive Touch Pen
(5-inch and 7-inch display do not come with a resistive touch pen.)

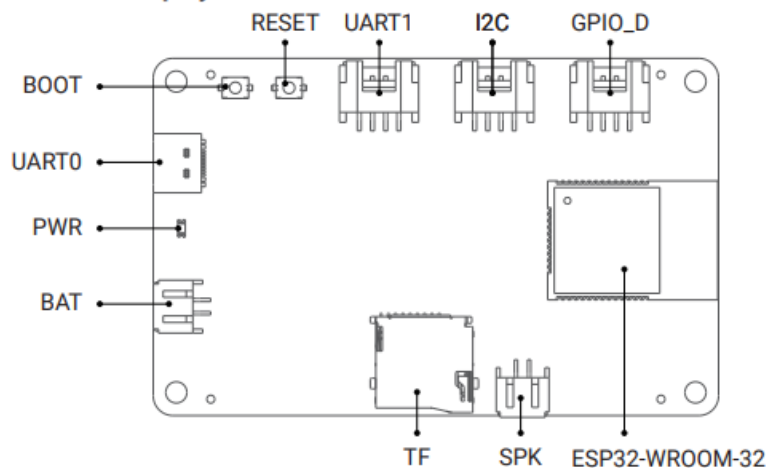
Screen Buttons and Interfaces

Screen appearance varies by model, and diagrams are for reference only. Interfaces and buttons are silk screen labeled, use actual product as reference.

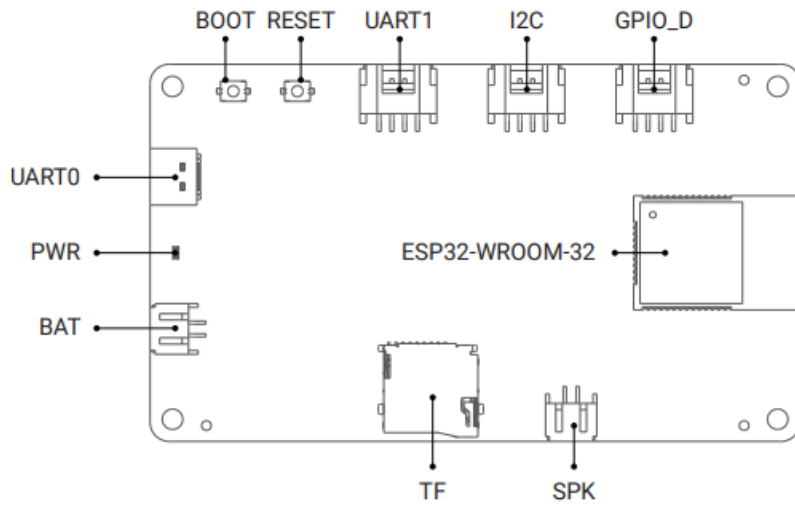
2.4 Inch HMI Display



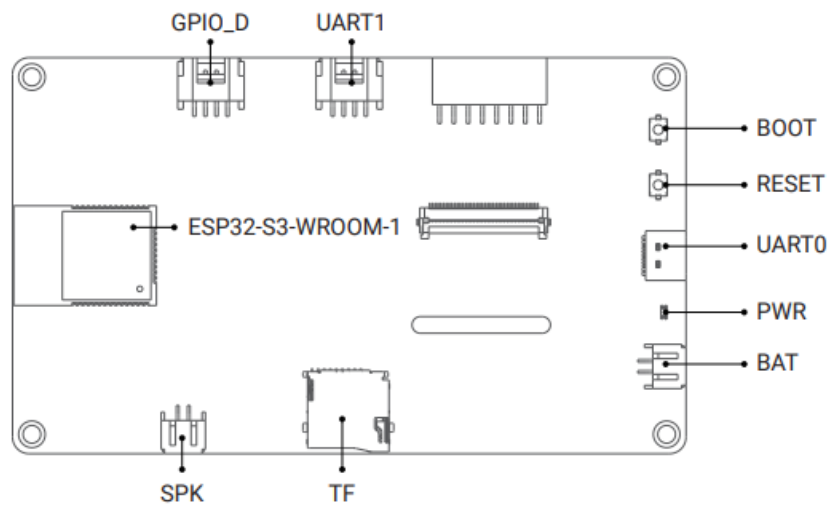
2.8 Inch HMI Display



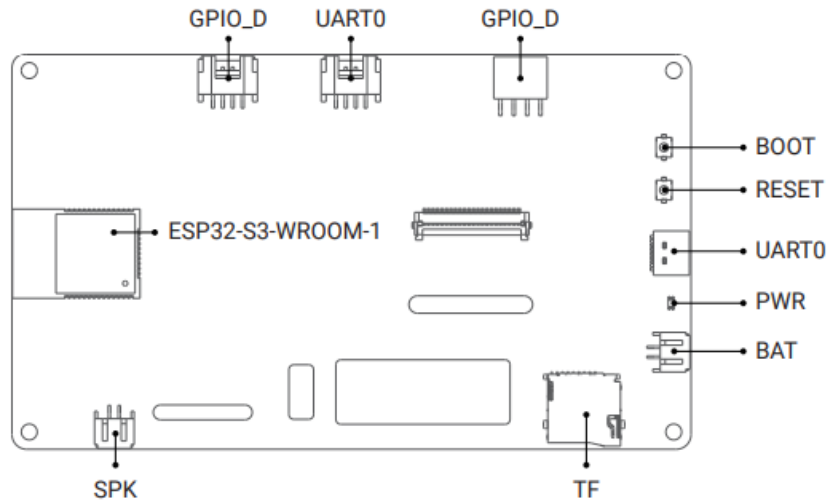
3.5 Inch HMI Display



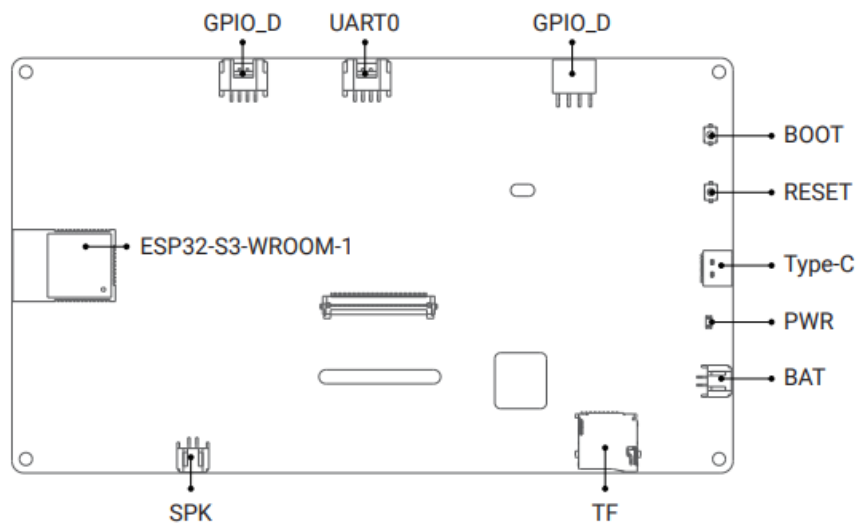
4.3 Inch HMI Display



5.0 Inch HMI Display



7.0 Inch HMI Display



Product Usage Instructions

Initial Setup

1. Unbox the package and ensure all components are present.
2. Connect the ESP32 Display to a power source using the provided USB-A to Type-C Cable.
3. Power on the display by pressing the appropriate power button.

Interface Navigation

1. Use the provided resistive touch pen to interact with the screen buttons and interfaces.
2. Refer to the silk-screen labels on the display for button and interface locations.

Troubleshooting

If you encounter any issues such as flickering or unclear display:

- Stop use immediately.
- Seek professional repair services.

Parameters

Size	2.4"	2.8"	3.5"
Resolution	240*320	240*320	320*480
Touch Type	Resistive Touch	Resistive Touch	Resistive Touch
Main Processor	ESP32-WROOM-32-N4	ESP32-WROOM-32-N4	ESP32-WROOM-32-N4
Frequency	240 MHz	240 MHz	240 MHz
Flash	4MB	4MB	4MB
SRAM	520KB	520KB	520KB
ROM	448KB	448KB	448KB
PSRAM	/	/	/
Display Driver	ILI9341V	ILI9341V	ILI9488
Screen Type	TFT	TFT	TFT
Interface	1*UART0, 1*UART1, 1*I2C, 1*GPIO, 1*Battery	1*UART0, 1*UART1, 1*I2C, 1*GPIO, 1*Battery	1*UART0, 1*UART1, 1*I2C, 1*GPIO, 1*Battery
Speaker Jack	YES	YES	YES
TF Card Slot	YES	YES	YES
Color Depth	262K	262K	262K
Active Area	36.72*48.96mm(W*H)	43.2*57.6mm(W*H)	48.96*73.44mm(W*H)

Size	4.3"	5.0"	7.0"
Resolution	480*272	800*480	800*480
Touch Type	Resistive Touch	Capacitive Touch	Capacitive Touch
Main Processor	ESP32-S3-WROOM-1-N4R2	ESP32-S3-WROOM-1-N4R8	ESP32-S3-WROOM-1-N4R8
Frequency	240 MHz	240 MHz	240 MHz
Flash	4MB	4MB	4MB
SRAM	512KB	512KB	512KB
ROM	384KB	384KB	384KB
PSRAM	2MB	8MB	8MB
Display Driver	NV3047	ILI6122 + ILI5960	EK9716BD3 + EK73002ACGB
Screen Type	TFT	TFT	TFT
Interface	1*UART0, 1*UART1, 1*GPIO, 1*Battery	2*UART0, 1*GPIO, 1*Battery	2*UART0, 1*GPIO, 1*Battery
Speaker Jack	YES	YES	YES
TF Card Slot	YES	YES	YES
Color Depth	16M	16M	16M
Active Area	95.04*53.86mm(W*H)	108*64.8mm(W*H)	153.84*85.63mm(W*H)

Expansion Resources



For More Details
Please Scan the QR Code.

- Schematic Diagram
- Source Code
- ESP32 Series Datasheet
- Arduino Libraries
- 16 Learning Lessons for LVGL
- LVGL Reference

Safety Instructions

- Avoid exposing the screen to sunlight or strong light sources to prevent affecting its viewing effect and lifespan.

- Avoid pressing or shaking the screen hard during use to prevent loosening of internal connections and components.
- For screen malfunctions, such as flickering, color distortion, or unclear display, stop use and seek professional repair.
- Before repairing or replacing any equipment components, make sure to turn off the power and disconnect from the device

Contact Info:

Company Name: Elecrow Technology Development Co., Ltd.
 Company address: 5th Floor, Fengze Building B, Nanchang Huafeng Industrial Park, Baoan District, Shenzhen, China

E-mail: techsupport@elecrow.com

Company website: <https://www.elecrow.com>

Made in China

Frequently Asked Questions (FAQ)

Q: Do all sizes come with a resistive touch pen?

A: No, only the 2.4-inch display comes with a resistive touch pen.

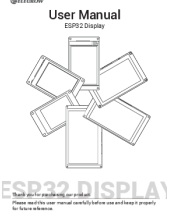
Q: How can I prevent screen malfunctions?

A: Avoid exposing the screen to strong light sources and refrain from pressing or shaking the screen hard during use.

Q: What should I do if the display shows color distortion?

A: Stop using the display immediately and seek professional repair services.

Documents / Resources

 <p>The image shows the cover of a user manual. It features a stylized graphic of a smartphone and a tablet. The text on the cover includes 'User Manual', 'ESP32 Display', and 'ELECROW'. There is also a small logo at the bottom left.</p>	<p>ELECROW ESP32 Display Compatible LCD Touch Screen [pdf] User Manual ESP32 Display Compatible LCD Touch Screen, ESP32 Display, Compatible LCD Touch Screen, LCD Touch Screen, Touch Screen, Screen</p>
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References

- [User Manual](#)

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