

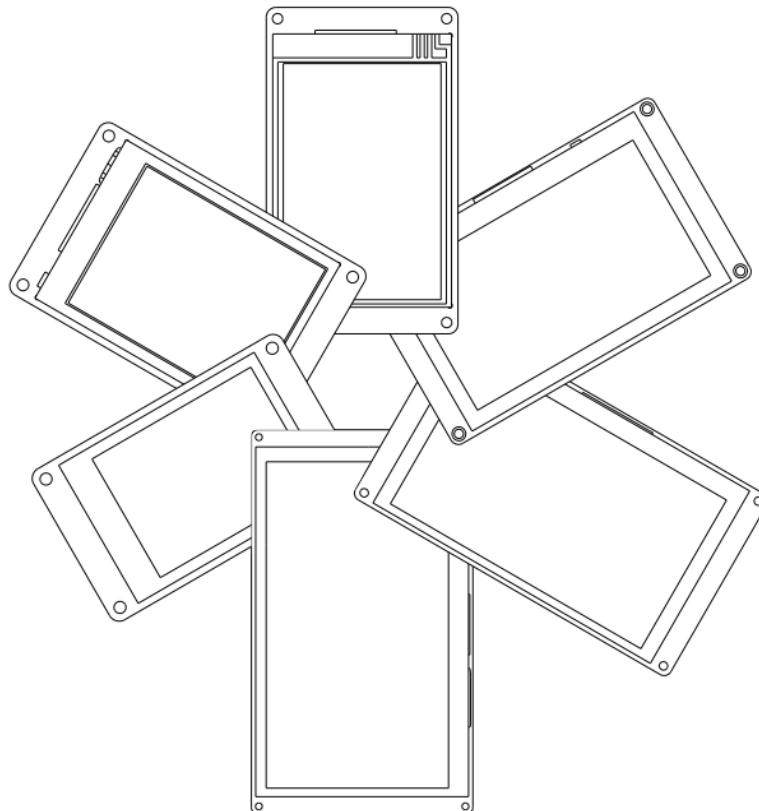


# ELECROW ESP32 Terminal RGB Touch Display User Manual

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## ESP32 Terminal RGB Touch Display User Manual



Thank you for purchasing our product.  
Please read this user manual carefully before use and keep it properly for future reference.

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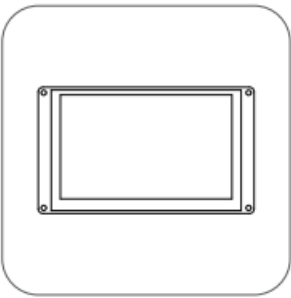
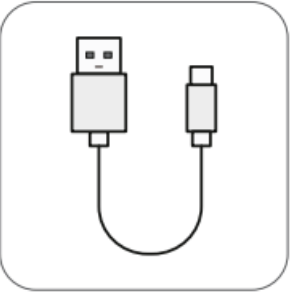
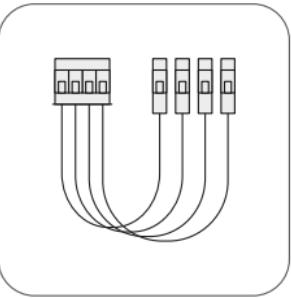
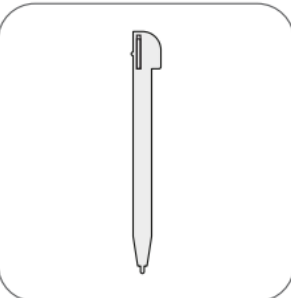
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## **Package List**

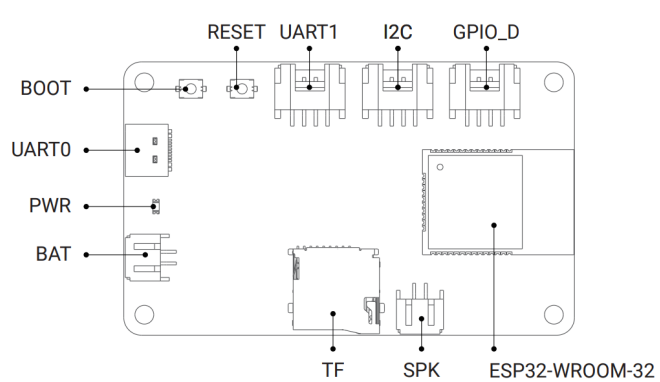
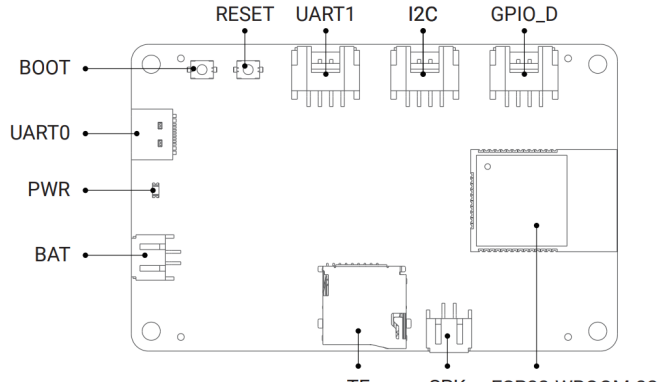
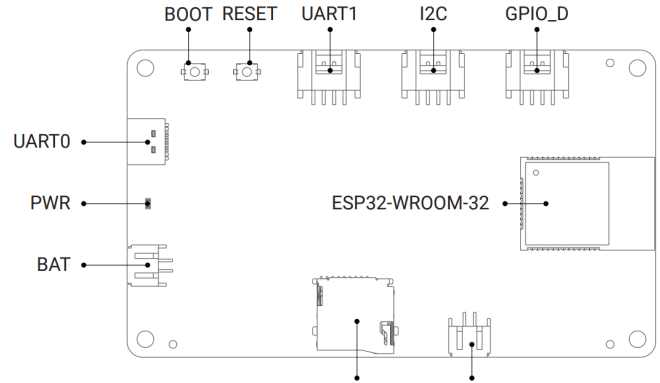
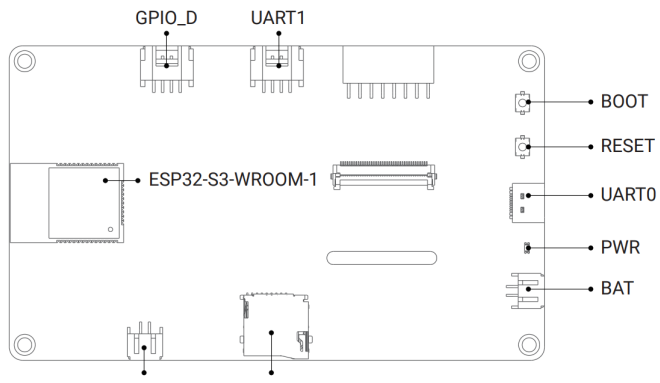
The following list diagram is for reference only.

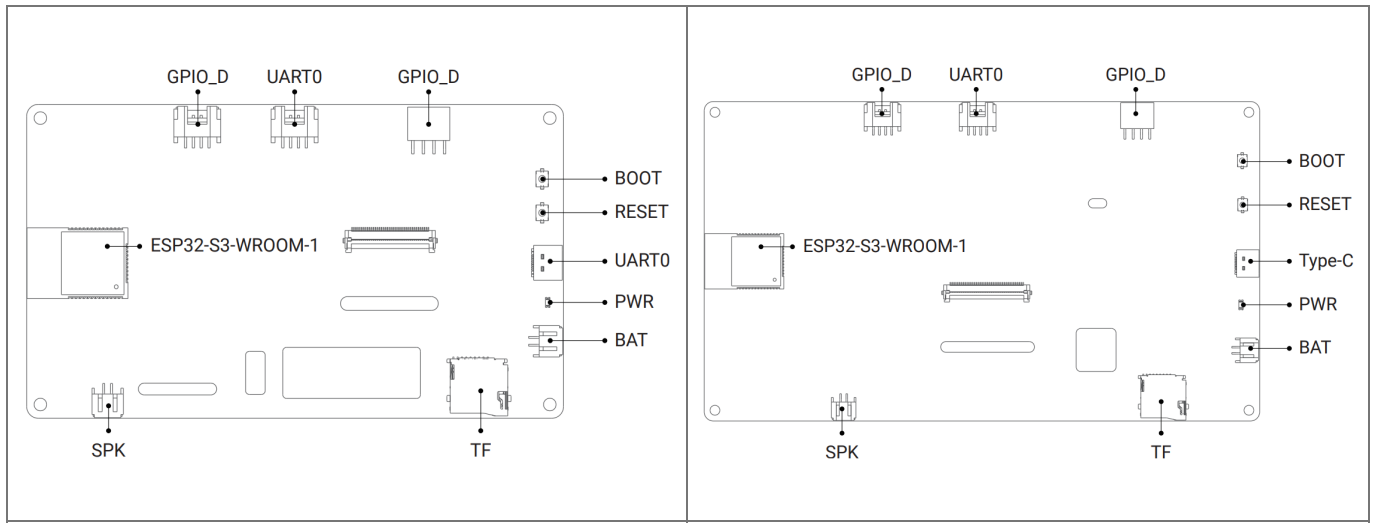
Please refer to the actual product inside the package for details.

	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.

<p>2.4 Inch HMI Display</p>	<p>2.8 Inch HMI Display</p>
	
<p>3.5 Inch HMI Display</p>	<p>4.3 Inch HMI Display</p>
	
<p>5.0 Inch HMI Display</p>	<p>7.0 Inch HMI Display</p>



### Parameters

Size	2.4"	2.8"	3.5"
Resolution	240*320	240*320	320*480
Touch Type	Resistive Youch	Resistive Youch	Resistive Youch
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 Youch	Capacitive Youch	Capacitive Youch
Main Processor	ESP32-S3-WROOM-1- N4R 2	ESP32-S3-WROOM-1- N4R 8	ESP32-S3-WROOM-1- N4R 8
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	+	EK9716BD3 + EK73002ACG B
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

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

For More Details Please Scan the QR Code.



<https://wx.jzx.com/?id=wq09Bd>

## Safety Instructions

To ensure safe use and avoid injury or property damage to yourself and others, please follow the safety instructions below.

- 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.

**Company Name:** Elecrow Technology Development Co., Ltd.

**Company address:** 5th Floor, Fengze Building B, Nanchang Huafeng Industrial Park, Baoan District, Shenzhen, China

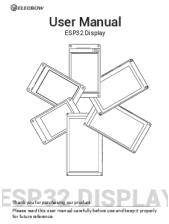
**E-mail:** [techsupport@elecrow.com](mailto:techsupport@elecrow.com)

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

**Made in China**



## Documents / Resources

	<p><a href="#">ELECROW ESP32 Terminal RGB Touch Display</a> [pdf] User Manual ESP32 Terminal RGB Touch Display, ESP32, Terminal RGB Touch Display, RGB Touch Display, Touch Display, Display</p>
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## References

-  [Elecrow: PCB Prototype & Open Hardware For Makers](#)