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CrowPanel ESP32 Display LCD Touch Screen Compatible

CrowPanel ESP32 Display LCD Touch Screen Compatible User Manual

Contents

CrowPanel ESP32 Display LCD Touch Screen Compatible

Specifications

- **Size:** 2.4″, 2.8″, 3.5″, 4.3″, 5.0″, 7.0″
- **Resolution:** Varies by size
- **Touch Type:** Resistive Touch (2.4″, 2.8″, 3.5″), Capacitive Touch (4.3″, 5.0″, 7.0″)
- **Main Processor:** Varies by model
- **Frequency:** 240 MHz
- **Flash:** 4MB
- **SRAM:** 520KB – 512KB
- **ROM:** 448KB – 384KB
- **PSRAM:** 8MB, 2MB
- **Display Driver:** ILI9341V, ILI9488, NV3047,\ ILI6122 & ILI5960, EK9716BD3 & EK73002ACGB
- **Screen Type:** TFT
- **Interface:** Varies by size
- **Speaker Jack:** YES
- **TF Card Slot:** YES
- **Active Area:** Varies by size

Product Usage Instructions

1. Package Contents:

Ensure the package contains: ESP32 Display, User Manual, USB-A\ to Type-C Cable, Crowtail/Grove to 4pin

DuPont Cable, Resistive Touch Pen (not included with 5-inch and 7-inch display).

2. Screen Buttons and Interfaces:

Refer to the silk screen labeled interfaces and buttons on theactual product for reference.

3. Safety Instructions:

- Avoid exposing the screen to sunlight or strong light sources.
- Avoid pressing or shaking the screen hard during use.
- If you experience screen malfunctions, seek professional\ repair.
- Turn off the power and disconnect from the device before repairing or replacing components.

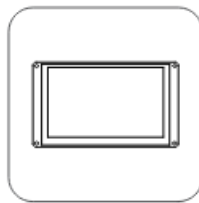## Frequently Asked Questions

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

A: No, only the models below 5 inches do not come with a resistive touch pen.

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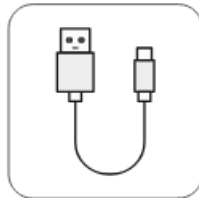
Package List

The following list diagram is for reference only. Please refer to the actual product inside the package for details
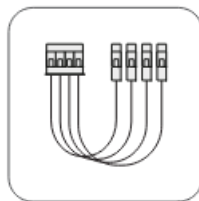
1x
ESP32 Display

1x
User Manual

1x
USB-A to Type-C Cable
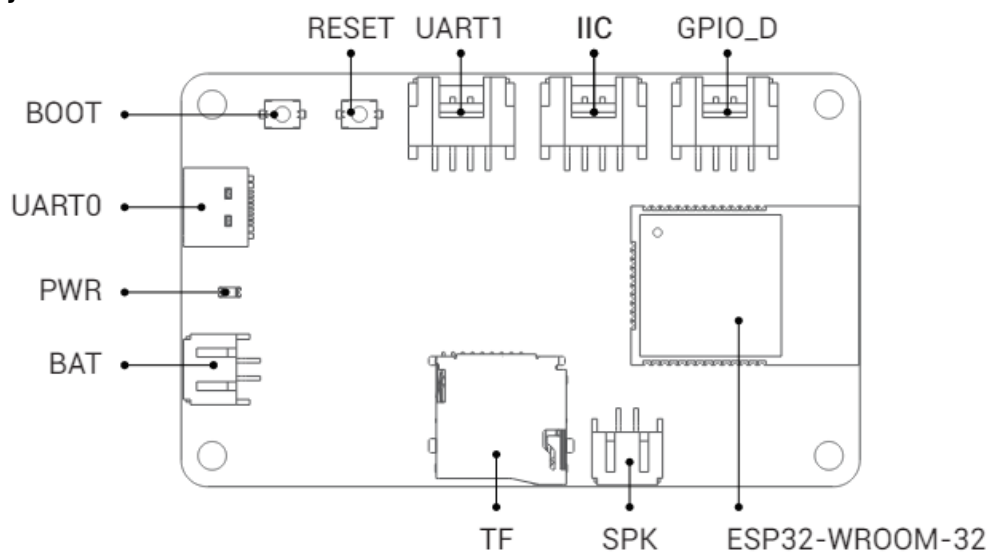

1x
Crowtail/Grove to 4pin DuPont Cable

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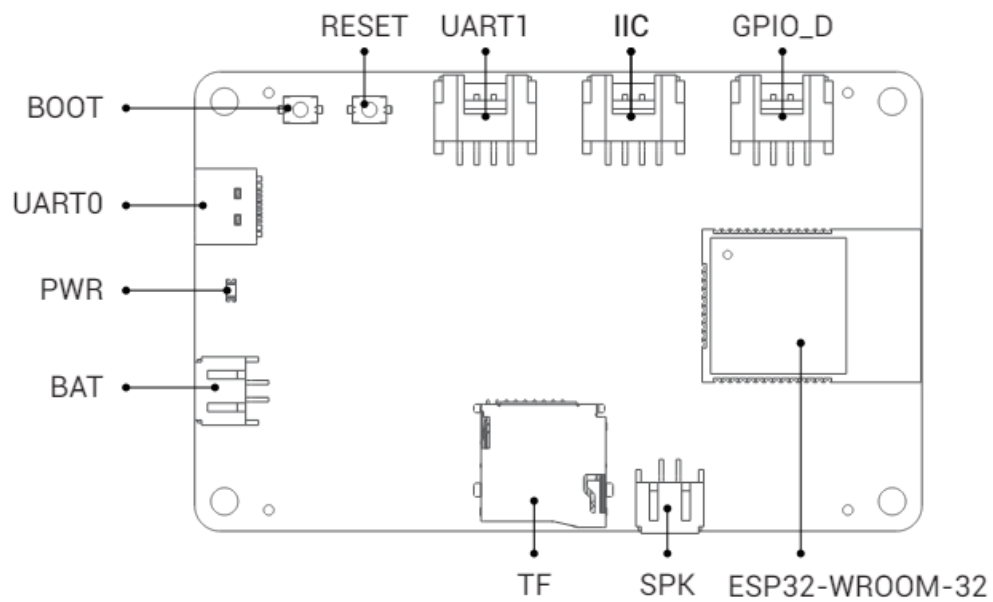(5-inch and 7-inch display do not come with a resistive touch pen.)

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
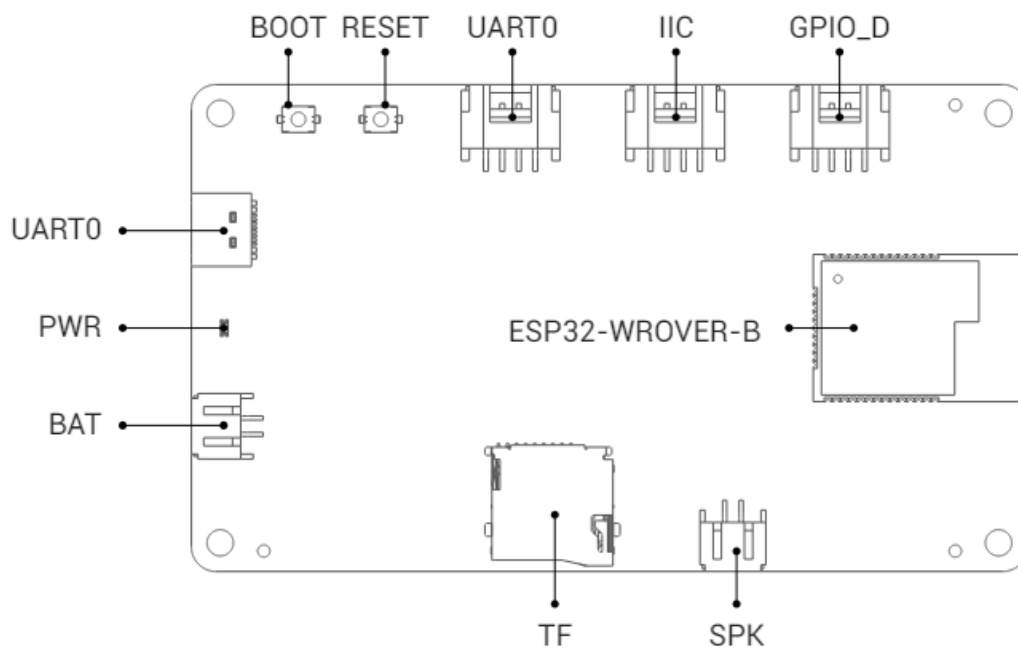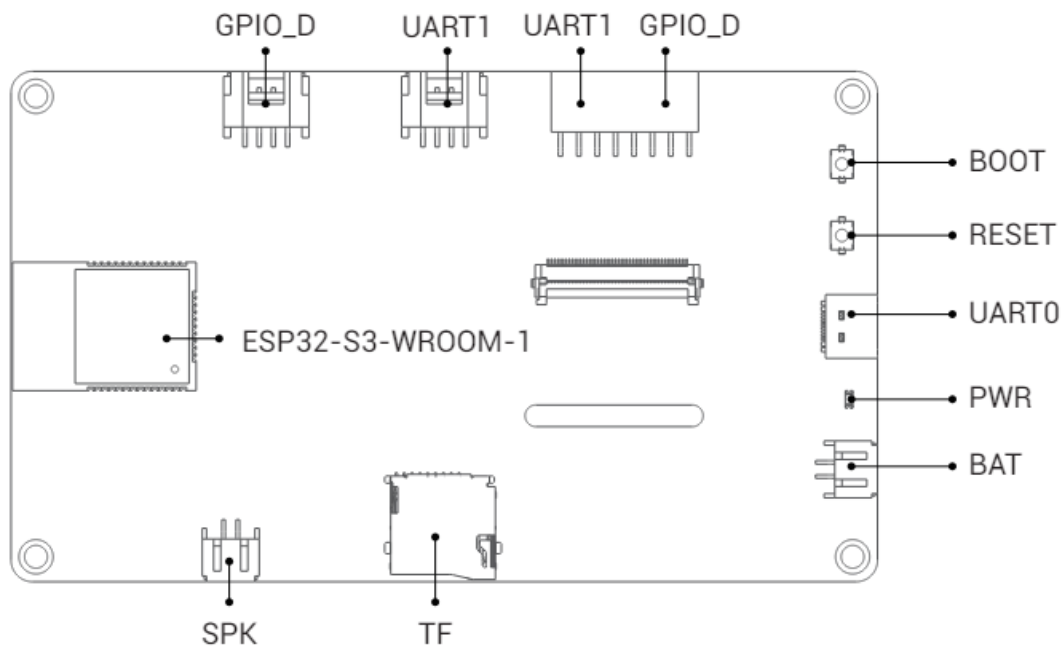
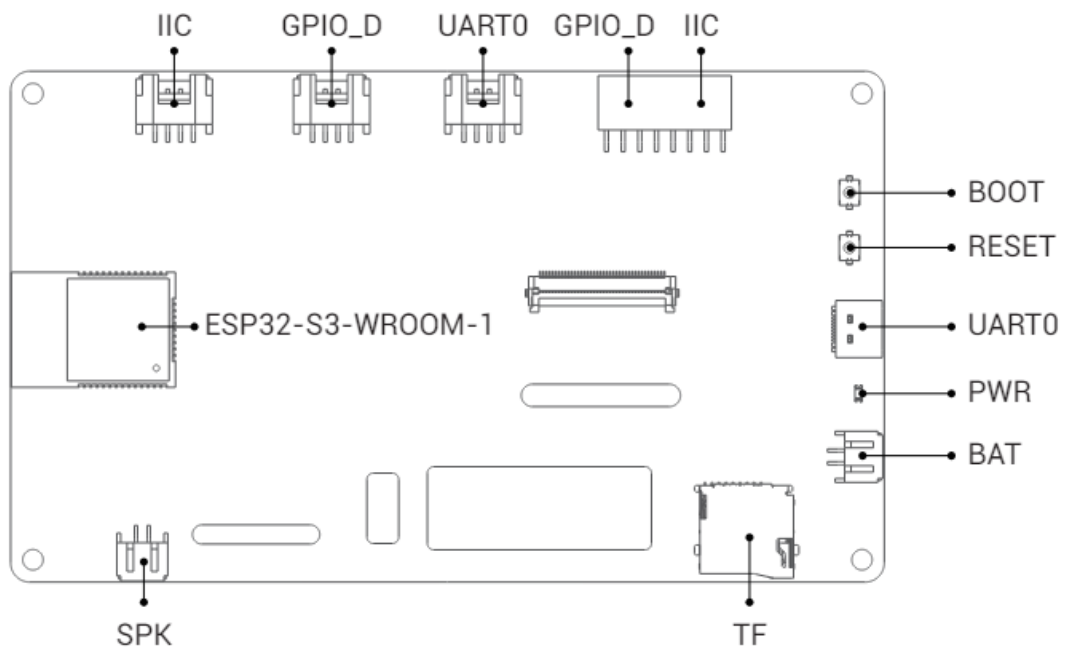### ESP32 Display 2.4 Inch

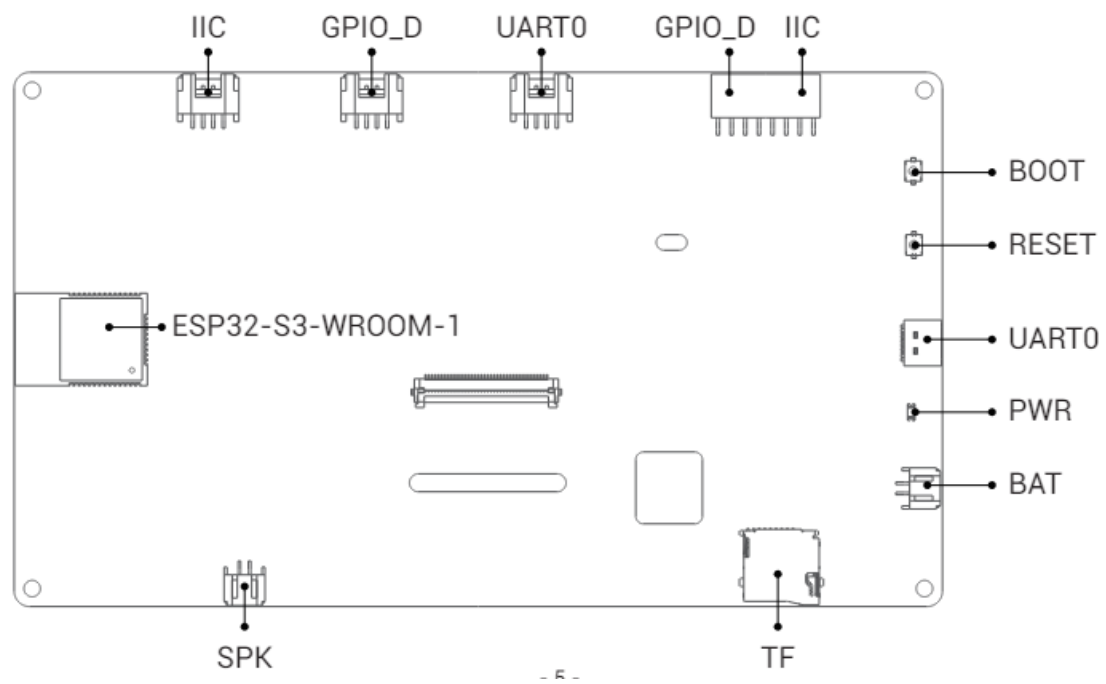### ESP32 Display 2.8 Inch

ESP32 Display 3.5 Inch

ESP32 Display 4.3 Inch

ESP32 Display 5.0 Inch

ESP32 Display 7.0 Inch

Parameters

Size	2.4″	2.8″	3.5″
Resolution	320*240	320*240	480*320
Touch Type	Resistive Touch	Resistive Touch	Resistive Touch
Main Processor	ESP32-WROOM-32-N4	ESP32-WROOM-32-N4	ESP32-WROVER-B
Frequency	240 MHz	240 MHz	240 MHz
Flash	4MB	4MB	4MB
SRAM	520KB	520KB	520KB
ROM	448KB	448KB	448KB
PSRAM	/	/	8MB
Display Driver	ILI9341V	ILI9341V	ILI9488
Screen Type	TFT	TFT	TFT
Interface	1*UART0, 1*UART1, 1*IIC, 1*GPIO, 1*Battery	1*UART0, 1*UART1, 1*IIC, 1*GPIO, 1*Battery	2*UART0, 1*IIC, 1*GPIO, 1*Battery
Speaker Jack	YES	YES	YES
TF Card Slot	YES	YES	YES
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- 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	ILI6122 & ILI5960	EK9716BD3 & EK73002ACGB
Screen Type	TFT	TFT	TFT
Interface	1*UART0, 2*UART1, 2*GPIO, 1*Battery	2*UART0, 2*GPIO, 2*IIC, 1*Battery	2*UART0, 2*GPIO, 2*IIC, 1*Battery
Speaker Jack	YES	YES	YES
TF Card Slot	YES	YES	YES
Active Area	95.04*53.86mm(W*H)	108*64.8mm(W*H)	153.84*85.63mm(W*H)

Expansion Resources

For more detailed information, please scan the QR code to the URL:
https://www.elecrow.com/wiki/CrowPanel_ESP32_HMI_Wiki_Content.html

- Schematic Diagram

- Source Code
- ESP32 Module Datasheet
- Arduino Libraries

Safety Instructions

To ensure safe use and avoid injury or property damage to yourself and others, please follow the safety instructions below.
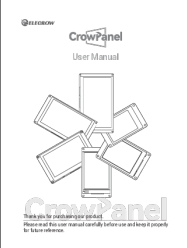
- Avoid exposing the screen to sunlight or strong light sources to prevent affecting its viewing effect and lifespan.
- Avoid pressing or shaking the screen hard during use to prevent loosening of internal connections and components.
- For screen malfunctions, such as flickering, color distortion, or 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

Contact

- Company Name: Elecrow Technology Development Co., Ltd.
- Company address: No.4832 Ba'an Avenue, Bao'an District, Shenzhen City
- Company website: **https://www.elecrow.com**
- For more detailed information, please scan the QR code to the URL:
- **https://www.elecrow.com/wiki/CrowPanel_ESP32_HMI_Wiki_Content.html**

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Documents / Resources

CrowPanel ESP32 Display LCD Touch Screen Compatible [pdf] User Manual
ESP32-WROOM-32, ESP32-WROVER-B, ESP32-S3-WROOM-1-N4R2, ESP32-S3-WROOM-1
-N4R8, ESP32 Display LCD Touch Screen Compatible, Display LCD Touch Screen Compatible,
Touch Screen Compatible, Screen Compatible, Compatible

References

- **ELECROW Online Store: DIY Electronics & PCB Manufacturing**
- **User Manual**