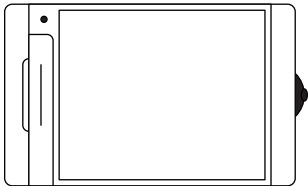


CrowPanel

ESP32 E-paper HMI Display



User Manual

Please read this user manual carefully before use and keep it properly for future reference

Package List



1* CrowPanel
ESP32 E-Paper HMI Display



1* USB-A to USB-C
Cable



1* User Manual

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

Expansion Resources

- [Wiki](#)
- [MCU Datasheet](#)
- [Driver Datasheet](#)
- [Github](#)
- [Schematic](#)



For More Details
Please Scan the QR Code

Parameters

Size	1.54"	2.13"
MCU	ESP32-S3, 8MB Flash, 8MB PSRAM	
Wireless Communication	2.4 GHz Wi-Fi (IEEE 802.11b/g/n) and Bluetooth 5 (LE)	
Communication Mode	SPI	
Interface	1* UART0, 1* BAT	1* UART0, 1* BAT, 1* GPIO
Button	1* Rotary Switch, 1* Menu Button, 1* Exit Button, 1* REST Button, 1* BOOT Button	
Development Environment	Arduino IDE	
Driver Chip	SSD1680	SSD1680Z, JD79661
Resolution	152*152	122*250
Refresh Mode	Partial Refresh (saves more power)	
Global Refresh	2s	
Display Color	Black & White	
Material	Active Matrix Electro Phoretic Display	
Active Area	37.18(H)*48.32(L)	31.2(H)*63.19(L)
Operation Voltage	2.2~3.7V	
Operation Temperature	0~50°C	

Parameters

Size	2.9"	3.7"
MCU	ESP32-S3-WROOM-1-N8R8, 8MB Flash, 8MB PSRAM	
Wireless Communication	2.4 GHz Wi-Fi (IEEE 802.11b/g/n) and Bluetooth 5 (LE)	
Communication Mode	SPI	
Interface	1* UART0, 1* BAT, 1* GPIO, 1* TF Card Slot	
Button	1* Rotary Switch, 1* Menu Button, 1* Exit Button, 1* REST Button, 1* BOOT Button	
Development Environment	Arduino IDE	
Driver Chip	SSD1680Z	UC8253
Resolution	128*296	240*416
Refresh Mode	Partial Refresh (saves more power)	
Global Refresh	3s	
Display Color	Black & White	
Material	Active Matrix Electro Phoretic Display	
Active Area	29.056(H)*66.896(L)	47.04(H)*81.54(L)
Operation Voltage	2.2~3.7V	
Operation Temperature	0~50°C	

Parameters

Size	4.2"	5.79"
MCU	ESP32-S3-WROOM-1-N8R8, 8MB Flash, 8MB PSRAM	
Wireless Communication	2.4 GHz Wi-Fi (IEEE 802.11b/g/n) and Bluetooth 5 (LE)	
Communication Mode	SPI	
Interface	1* UART0, 1* BAT, 1* GPIO, 1* TF Card Slot	
Button	1* Rotary Switch, 1* Menu Button, 1* Exit Button, 1* REST Button, 1* BOOT Button	
Development Environment	Arduino IDE	
Driver Chip	SSD1683	2* SSD1683
Resolution	400*300	272*792
Refresh Mode	Partial Refresh (saves more power)	
Global Refresh	5s	6s
Display Color	Black & White	
Material	Active Matrix Electro Phoretic Display	
Active Area	84.8(H)*63.6(L)	47.74(H)*139.00(L)
Operation Voltage	2.2~3.7V	
Operation Temperature	0~50°C	

Safety Instructions

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

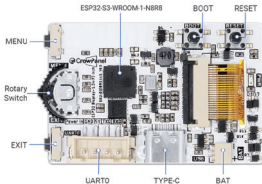
- Avoid exposing the screen to sunlight or strong light sources to prevent affecting its viewing effect and lifespan.
- Avoid pressing or shaking the screen hard during use to prevent loosening of internal connections and components.
- For screen malfunctions, such as flickering, color distortion, or 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 website: <https://www.elecrow.com>

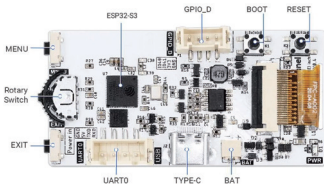
1.54 Inch E-Paper HMI Display Buttons and Interfaces

SKU: DIE09154S



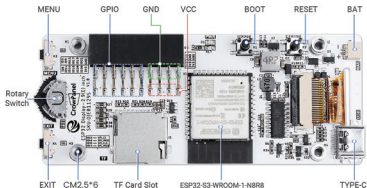
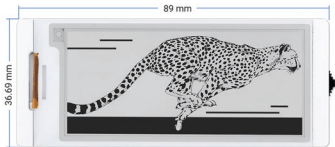
2.13 Inch E-Paper HMI Display Buttons and Interfaces

SKU: DIE01021S



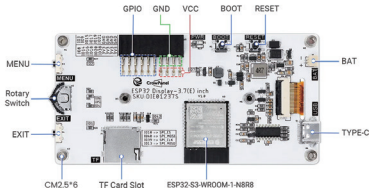
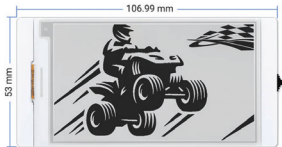
2.9 Inch E-Paper HMI Display Buttons and Interfaces

SKU: DIE01129S



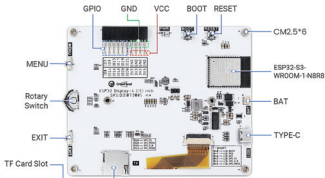
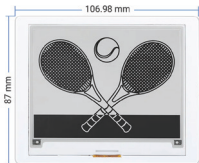
3.7 Inch E-Paper HMI Display Buttons and Interfaces

SKU: DIE01237S



4.2 Inch E-Paper HMI Display Buttons and Interfaces

SKU: DIE07300S



5.79 Inch E-Paper HMI Display Buttons and Interfaces

SKU: DIS08792E

