



ESP32-P4 HMI AI Display

CrowPanel Advance Series

FCC ID: 2BDNA-AP07



User Manual

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.



1 x ESP32-P4 HMI AI Display



1 x User Manual



1 x USB-A to USB-C Cable



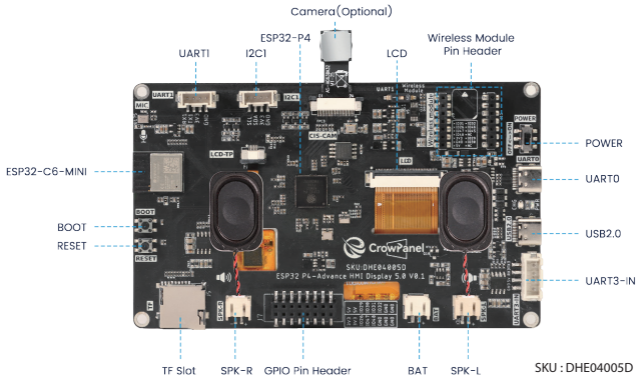
1 x Crowtail/Grove to 4pin
DuPont Cable



1 x (Optional) Wireless Module-ESP32-H2/Wireless Module-WiFi
Halow/Wireless Module-nRF2401/Wireless Module-LoRa

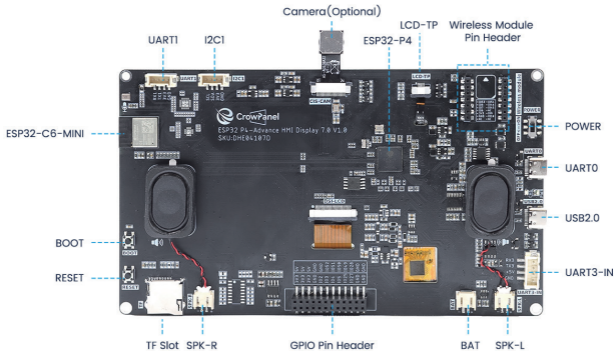
5 Inch HMI Display Buttons and Interfaces

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



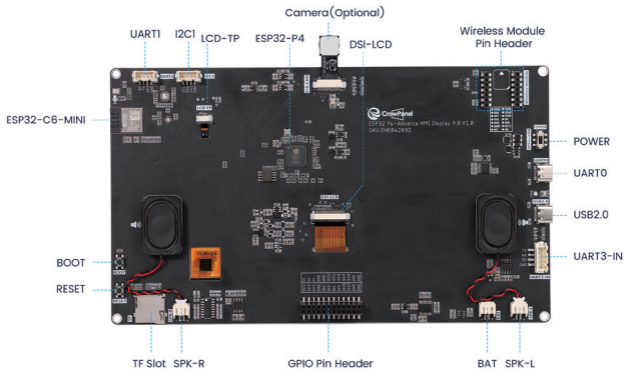
7 Inch HMI Display Buttons and Interfaces

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



9 Inch HMI Display Buttons and Interfaces

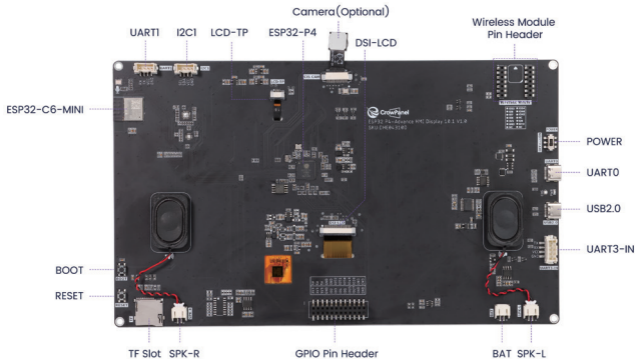
Screen appearance varies by model, and diagrams are for reference only. Interfaces and buttons are silk screen labeled, use actual product as reference.



SKU : DHE04209D

10.1 Inch HMI Display 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.



SKU : DHE04310D

Parameters

	5"	7"	9"	10.1"
MCU	ESP32-P4,400 MHz, 768 KB L2MEM (HP) , 128 KB ROM (HP) 32 KB SRAM (LP), 16 KB ROM (LP) 8 KB SPM, 32 MB PSRAM, 16 MB Flash			
Wireless Chip	ESP32-C6-MINI, 160MHz, 512 KB SRAM(HP), 16 KB SRAM(LP), 320 KB, 8 MB Flash			
Wireless Communication	Support 2.4GHz(Wi-Fi6), 802.11 a/b/g/n, Bluetooth 5.3 and BLE			
AI-Compatible	Support(include MIC, Speaker)			
Camera-Compatible	Optional			
ReplaceableModule	(Optional) Wireless Module-ESP32-H2/Wireless Module-WiFi Halow/ Wireless Module-nRF2401/Wireless Module-LoRa			
Interface	1*UART0, 1*UART1, 1*UART3-IN, 1*I2C, 1*USB2.0, 1*BAT, 2*SPK 1*TF Slot, 1*GPIO Pin Header, 1*Camera Header			
Resolution	800*480	1024*600		
Screen Type	IPS, Capacitive Touch			
Brightness	400 cd/m2(Type)			

Expansion Resources

- Wiki
- IDF User Lessons
- Arduino User Lessons
- ESP32-P4 Datasheet
- 3D File

For More Details, Please
Scan the QR Code.



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.

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.



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