

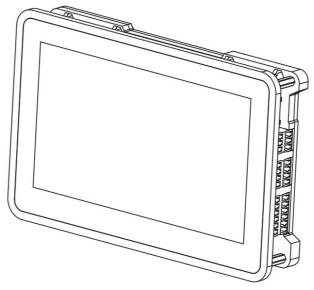
ELECROW Pi Terminal CrowPanel CM4 Display User Manual

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Display Pi Terminal User Manual v1. 0



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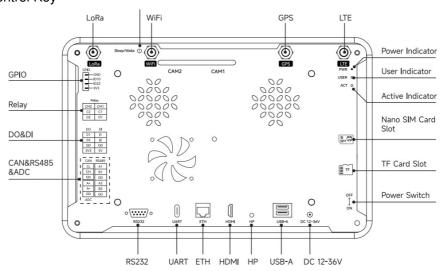
Overview

CM4 Display is a multi-functional embedded industrial control device designed based on the Raspberry Pi platform. Equipped with a 7-inch capacitive screen, it has multiple industrial interfaces and supports multiple wireless communication protocols. By using the CM4 as the main controller, it quickly handles real-time control tasks and monitors ongoing operations. Its industrial design allows it to withstand harsh environments.

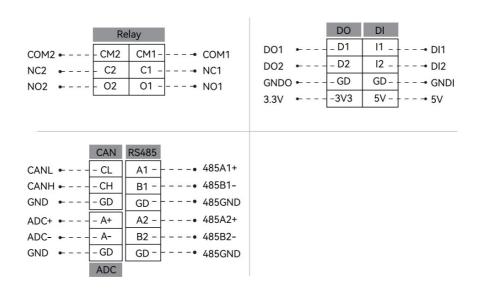
The CM4 Display integrates with Node-RED, which compatible with the software running on the Raspberry Pi and pre-installed Rasbian system. Using an all-in-one design, it boasts a robust open-source ecosystem tailored for various industry applications.

Interface

⚠ **Note:** The acrylic case needs to be purchased separately Screen Backlight Control Key



Pin and Indicator Definition



PWR ● CM4 Power Indicator USER ○ User-defined Function Indicator ACT ○ CM4 Status Indicator

Specification-1

CM4 Processor

CPU	Broadcom BCM2711, quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
Flash	4GB
Storage	64GB TF Card or SSD (Optional)
System	Raspbian (Compatible with Node-RED)

Display

Size	7*
Resolution	1024*600
Luminance	450 cd/m ²
Touch Type	5-point capacitive touch

Wireless Communication

WiFi	2.4/5.0 GHz on CM4
Bluetooth	BLE 5.0 on CM4
LoRa	Mini-PCle socket (Optional)
LTE	Mini-PCle socket (Optional)

Specification-2 Edge Interfaces

2"20Pin Header	Before referencing CM4 resources, please confirm whether the resources have been reused
CAM*2	MIPI CS camera interface, compatible with all camera specifications of Raspberry Pi
GPIO	GND/GPIO10/GPIO22/3.3V, extend custom functions and connect to the button boar d to use custom functions
Relay	2*3Pin, control the relay switch through high and low voltage levels
DO&DI	2°4Pin, support two digital input and two digital output channels
CAN&RS485&ADC	2*6Pin, RS485 occupies six pins, CAN occupies three pins, and ADC occupies three pins
RS232	DBY interface, reserve external industrial non-isolated serial port
UART (Type-C)	USB2.0. USB to UART. Connect to USB device
ЕТН	RJ45 interface. 10/100/1000Mbps. Used for connecting to Ethernet or other local are a networks

Specification-3 Edge Interfaces

HDMI	HDMI2.0. Used for video output. Support video output up to 4K @ 60 fps
HP	3.5mm audio jack. Used for connecting headphone or microphone
USB-A*2	USB-A 2.0. Used for connecting USB devices
DC 12-36V	Used for powering the device
TF Card Slot	64GB TF card. Press the card to insert or eject it from the slot
Nano SIM Card Slot	Insert a Nano SIM card and pair it with a 4G module to provide 4G cellular data communication for the device
2°4Pin Header	Used for expanding the USB interface

Other Interfaces

PoE	Power CM4
Fan	Connect the fan to dissipate heat
SPK*2	Connect the speakers for sound output

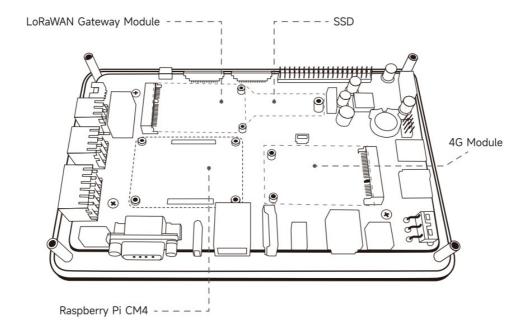
Specification-4 Environmental Spec

Front Panel IP Rating	P65
Operating Temperature	-10~60°C
Storage Temperature	-20-70°C
Storage Temperature	10-90%

Parameters

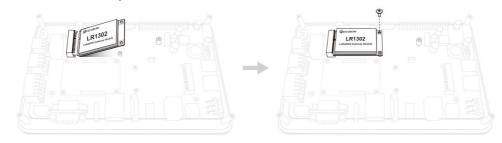
Front Glass Thickness	1.8mm
With acrylic case	
Dimesion	192*125*46mm
Net Weight	6769
Without acrylic case	
Dimesion	182°115*29mm
Net Weight	3899

Installation-1

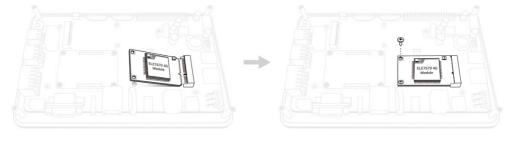


Installation-2

• Installation of LoRaWAN Gateway Module



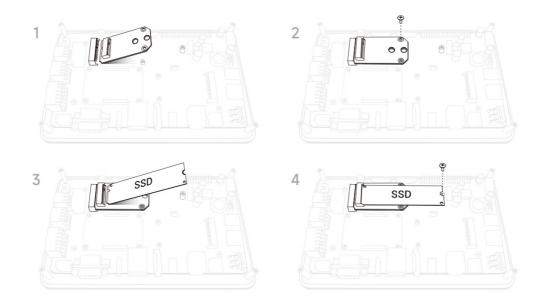
• Installation of 4G Module



Please insert the modle at a 45° angle and then tighten the screws to lock it in place.

Installation-3

Installation of SSD





 ${\it L}$ Please insert the module at a 45° angle and tighten the screws to secure it

Package List

*Without Acrylic case

- CrowPanel-CM4 Display*1 (Optional Acrylic Case)
- Inserted 64GB TF Card"1 (image File Loaded)
- IPEX to SMA Female Adapter Cable"1
- 2*3Pin Phoenix Type Connector*I
- 2*4Pin Phoenix Type Connector*1
- 2*6Pin Phoenix Type Connector*1
- WiFi External Antenna*1
- 12V-2A Adapter'l
- User Manual'1

Customer Support

If you have any questions, customer support is always standing by.

For more technical details, please visit the relevant webpage.



Documents / Resources



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• User Manual

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