

# **ELECROW CM4 Display Pi Terminal User Manual**

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**ELECROW CM4 Display Pi Terminal** 

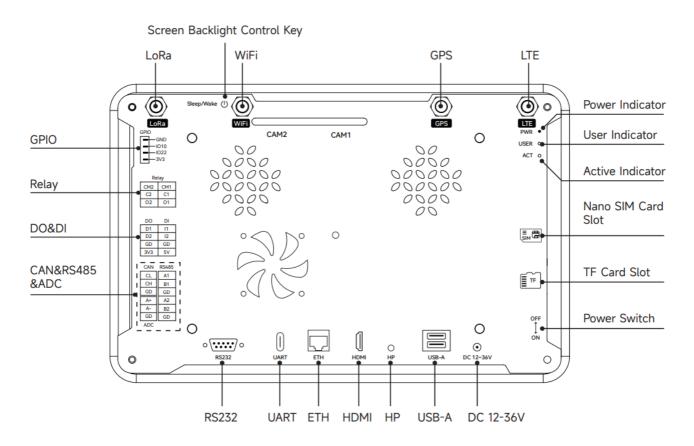


#### **Overview**

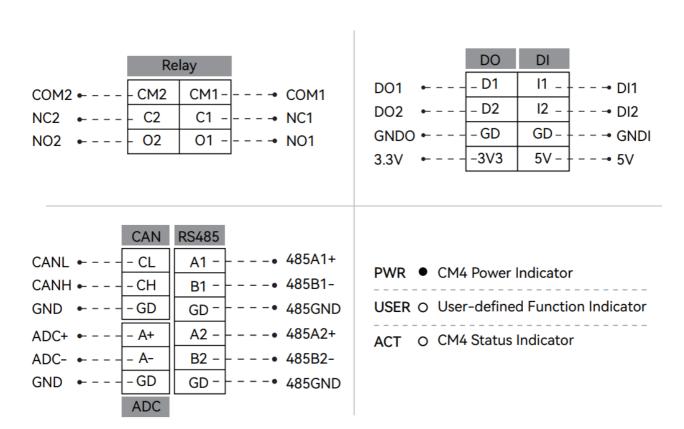
CM4 Display is a multi-functional embedded industrial control device designed based on the Raspberry Pi platform. Equipped with a 7-inch capacitive screen, it has multiple industrial interfaces and supports multiple wireless communication protocols. By using the CM4 as the main controller, it quickly 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



### **Pin and Indicator Definition**



### **Specification**

### **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/m2
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 CSI camera interface, compatible with all camera specifications of R aspberry Pi
GPIO	GND/GPIO10/GPIO22/3.3V, extend custom functions and connect to the b utton board 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	DB9 interface, reserve external industrial non-isolated serial port
UART (Type-C)	USB2.0. USB to UART. Connect to USB device
ETH	RJ45 interface. 10/100/1000Mbps. Used for connecting to Ethernet or oth er local area 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**

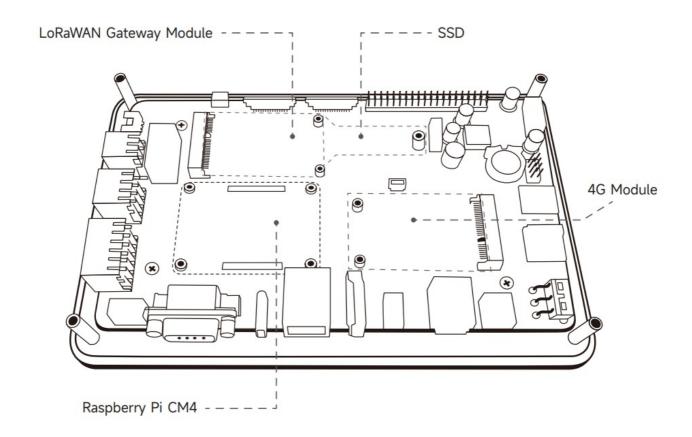
Front Panel IP Rating	IP65
Operating Temperature	-10~60°C
Storage Temperature	-20-70°C
Relative Humidity	10~90%

### **Parameters**

Front Glass Thickness	1.8mm	
With acrylic case		
Dimension	192*125*46mm	
Net Weight	676g	
Without acrylic case		
Dimension	182*115*29mm	
Net Weight	389g	

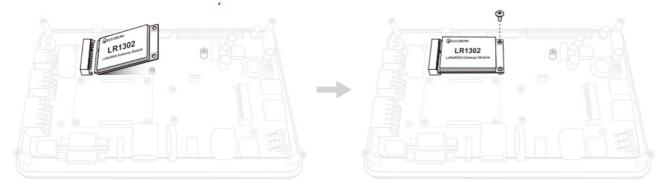
### Installation

### Installation-1

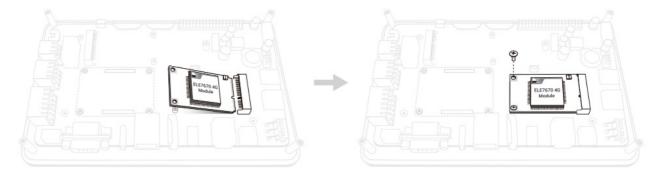


### Installation-2

• Installation of LoRaWAN Gateway Module

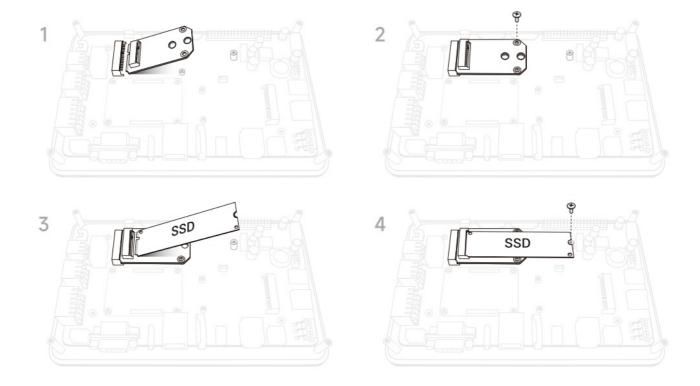


• Installation of 4G Module



### Installation-3

### Installation of SSD



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

### **Package List**

### 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\*1
- 2\*4Pin Phoenix Type Connector\*1
- 2\*6Pin Phoenix Type Connector\*1
- WiFi External Antenna\*1
- 12V-2A Adapter\*1
- User Manual\*1

### **Customer Support**

you have any questions, customer support is always standing by

- info@elecrow.com
- techsupport@elecrow.com

For more technical details, please visit the relevant webpage.

#### **Documents / Resources**



# **ELECROW CM4 Display Pi Terminal** [pdf] User Manual CM4 Display Pi Terminal, CM4, Display Pi Terminal, Pi Terminal, Terminal

### References

User Manual

Manuals+, Privacy Policy

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