

10.1 inch Smart Touchscreen Spec. T10PE (PoE Version)

■ Version update instructions

Ver.	Description	Creator	Date
v1.0	First Version	Engineer Dept.	Dec-12-2024

Model Description:

T10PE: Open Android version. It is for customers to develop and install their firmware and modules (Such as Zigbee, Mesh, etc that fit in our mainboard).

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Chapter 1 Product Introduction

1.1 Appearance



1.2 Features

- 10.1-inch TFT LCD, G+FF touch screen, anti-fingerprint oil layer, four-way linear array microphone, 8-ohm 1W dual speakers, 1 physical power button, DC9V-24V power input.
- Supports distance sensing to wake up the screen, light sensing screen adaptive brightness adjustment.
- Supports one-click screen off, shutdown and restart of the device.
- Support EU/UK/US/Asia wall box installation.
- Supports POE power input and RS485 communication.

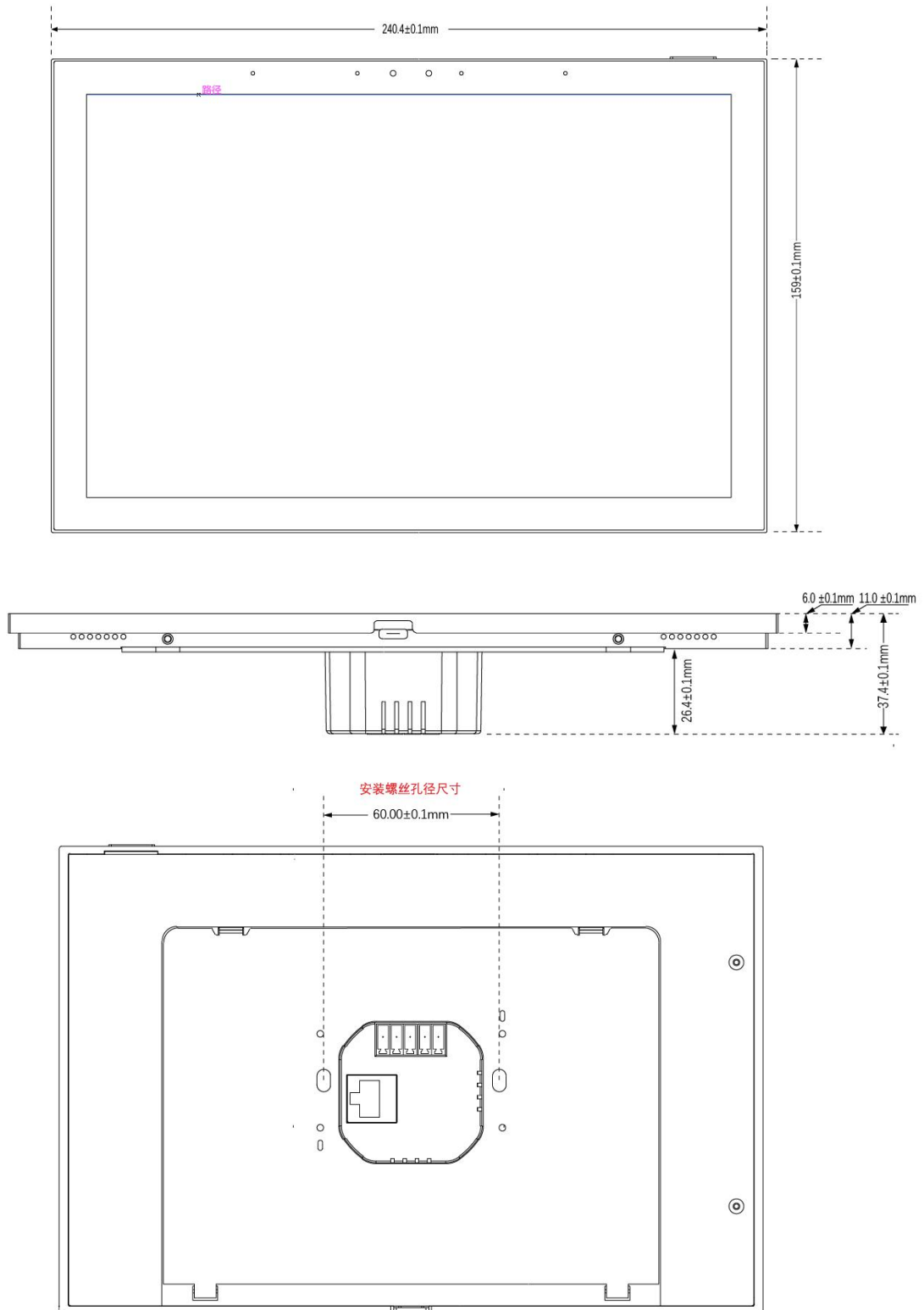
Chapter 2 Product Specifications

2.1 Parameter Specifications

Product Configuration Parameters				
	Name	Content	Detailed parameters	Remarks
1	CPU	Rock Chip	RK3566 Quad-core Cortex-A55	
2	RAM+ROM	LPDDR4+EMMC	2G + 32G	
4	OS	Android	Android 11	
5	Screen	10.1 inch	1280*800 Capacitive, G+FF process	
6	Wireless connection	WIFI	2.4&5GHz	802.11a/b/g/n/ac
		BLE	BT 5.4	
		ZigBee	Tuya Zigbee module model ZS13S	T10PE-NZ don't have Zigbee
	Antenna	WIFI+BLE	IPEX terminal+FPC	
7	Wire connection	RS485	Half-duplex	
		Ethernet	10/100Mbps	Support POE
8	Sensors	Light sensor	Built-in	
		Proximity Sensor	≤50CM	
9	Mic& Speaker	Microphone	Four-microphone line array	
		Speaker	8Ω1W * 2	
10	Interface and buttons	USB	Type-C	USB-C
		Power button	Physical button	
		Power interface	2P, 3.81MM Phoenix interface	DC / GND
		RS485 interface	3P, 3.81MM Phoenix interface	A / B / GND
		Ethernet	Standard RJ45, without light	

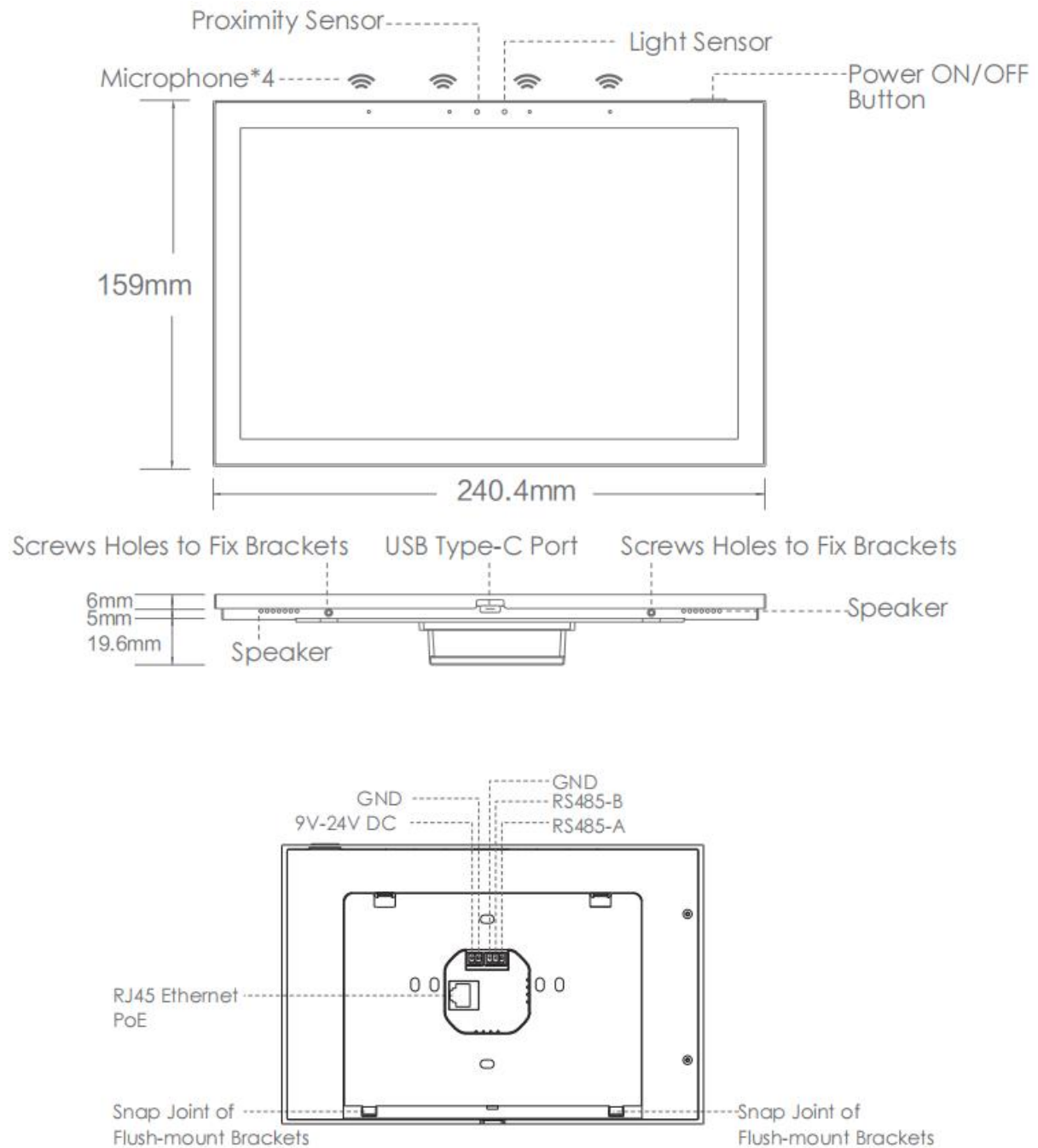
11	Power supply	DC power input	DC 9V-24V	
12	Product appearance	Product Size	240.4 x 159 x 37.4 mm	With back base
		Middle frame material	Aluminum alloy CNC, anodized	
		Mid frame color	Tartan/Gray	
		Back case material	PC	
		Back case color	Black	
		Base box material	PC	
		Base box color	Black	
		Power button	Aluminum alloy CNC, anodized	
13	Bracket	Material	Metal	
14	Back base	Suitable Wall Box	Fits in EU/UK/US/Asia wall box	
Reliability				
1	Dust and water resistance level		IP50	
2	ESD		Contact 6K, Air 10K	
3	Surge (power and network port)		1KV	
4	Operating temperature		0℃—40℃	
5	Operating humidity		90%RH	
6	Storage temperature		-10—60℃	

2.2 Key Dimensions

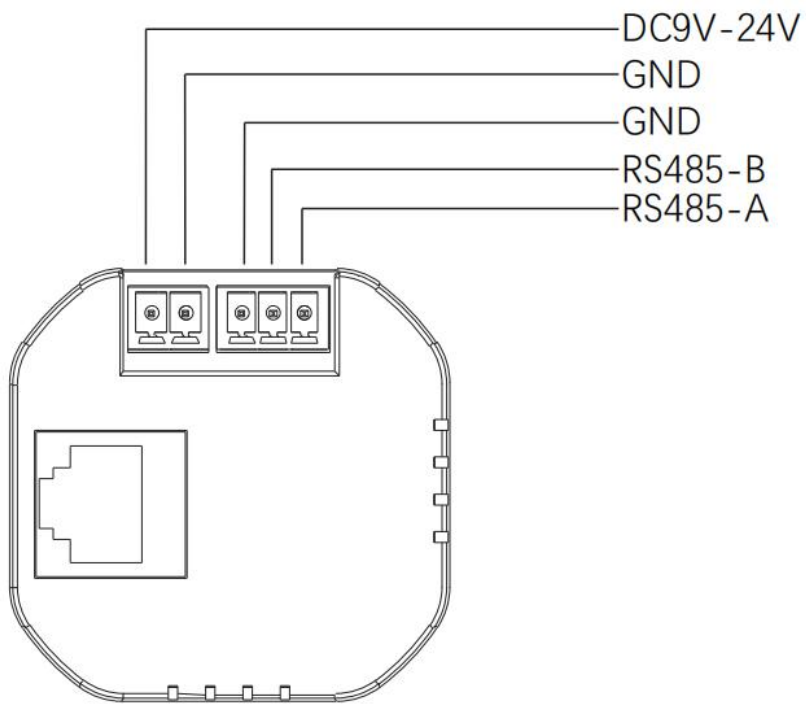


Chapter 3 Interface and Wiring Instructions

3.1 Interface Instructions



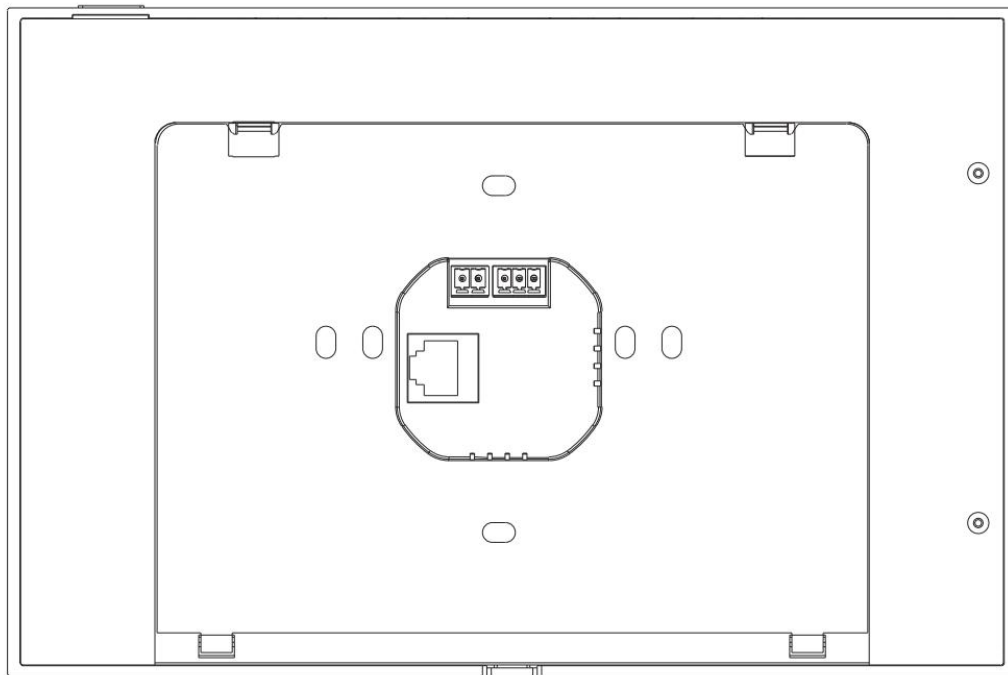
3.2 Wiring Diagram



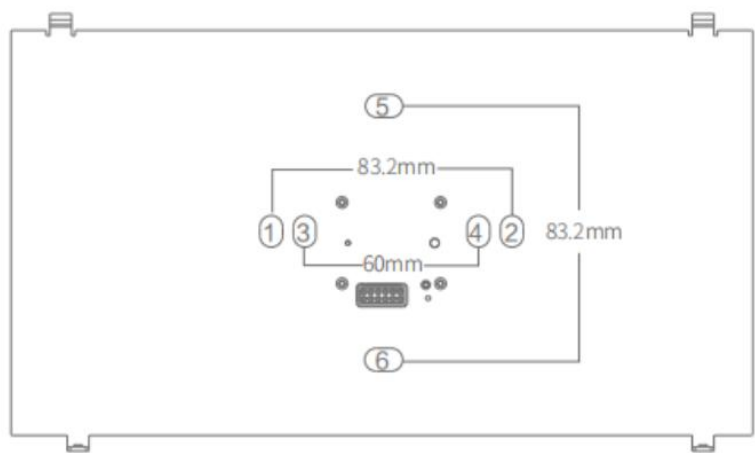
Note: The network port is a standard RJ45 port and supports POE power supply.

Chapter 4 Installation Diagram and Instructions

4.1 Installation Diagram



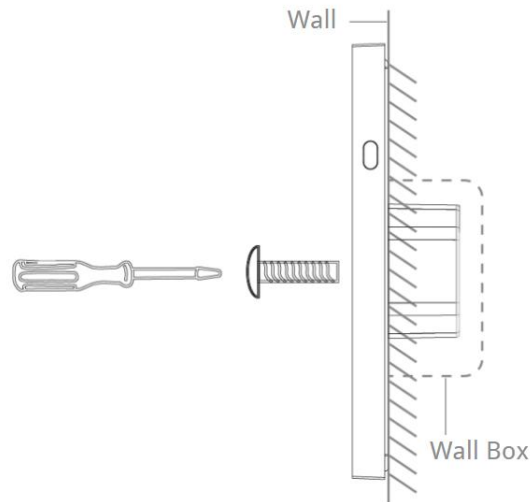
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Install the bracket upward
in this direction

Screw holes spacing diagram:

- ①② Fits US standard horizontal In-wall lining box
- ③④ Fits European and Asian standard In-wall lining box
- ⑤⑥ Fits US standard vertical In-wall lining box



4.2 Installation Instructions

- Use a flat-blade screwdriver to remove the product bracket and back base, and install them in the wall box.
- Check the wiring and confirm that the DC power supply and RS485 terminal wires are in good contact with the terminal heads of the back box, without loosening or falling off.
- Use the mounting screws in the accessory package to lock the bracket base on the wall box, ensure that the bracket is flush with the wall, and then gently press and snap the panel together.
- Note that during the installation of the bracket, the mounting screws should not be tightened too much to avoid deformation of the bracket or damage to the screen and hardware.
- If you encounter problems during installation, do not press hard to force the installation. You should first level the wall and check the flatness of the bracket.

Chapter 5 Product Usage Instructions

5.1 Safety Instructions

- To ensure the correct use of this product, this product must be installed or disassembled by a professional electrician.
- Before disassembling the original wall panel product, the main power switch must be turned off to prevent electric shock. This product is a DC 9V-24V input. Make sure there is a corresponding voltage power supply in the wall box.
- This product must be kept away from fire and water during installation and use.
- This product cannot be used in a humid environment (such as a bathroom).