Programmable Touch Panel (Wall-in)

User Manual

VER 1.0

Thank you for purchasing this product

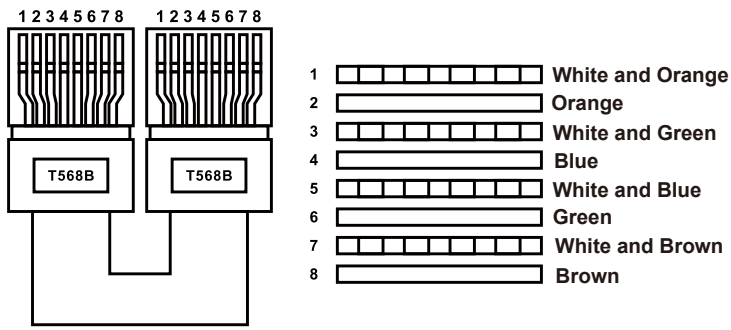
For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Caution

The network cable connection method required for this product is direct connection. Please do not cross connect.



Direct Interconnection Method

Table of Contents

1. Introduction

The programmable touch panel is designed to be utilized in the sectors of automated office system, multi-media room and smart home. With a programmable interactive user interface over configuration protocols, the integrated system provides intelligent networking service. The wall-in touch panel, with standard 86 box design, is equipped with a capacitive touch screen with a resolution of 480*480, and it supports one LAN port and one RS-232 serial port. It is used in a diverse range of installations and applications across industries including multi-media conference rooms, multi-functional halls, training centers, show room, broadcasting studios and industrial automation.

2. Features

☆ ARM Cortex-A55 architecture 1.8Ghz main frequency
☆ Android 11.0 system, 4GB DDR4 RAM, 32GB EMMC Flash
☆ 4 inch 480*480 (1:1) resolution, capacitive touch screen, standard 86 box wall-in design
☆ One machine with two modes, can be used as touch screen central control or user terminal
☆ Support one RS-232 serial communication port, which is capable of configuring 8 baud rates in the range of 2400-115200bps
☆ Support access to the host system management web page with a password
☆ Interface design and programming through IDE design tools
☆ Compliant with industry standard network communication protocols (TCP/IP, Http, UDP, Websocket)
☆ With 1 Gigabit network port, the highest rate up to 1G/bps
☆ Dual power supply mode, supporting PoE or DC power supply
☆ Support factory reset

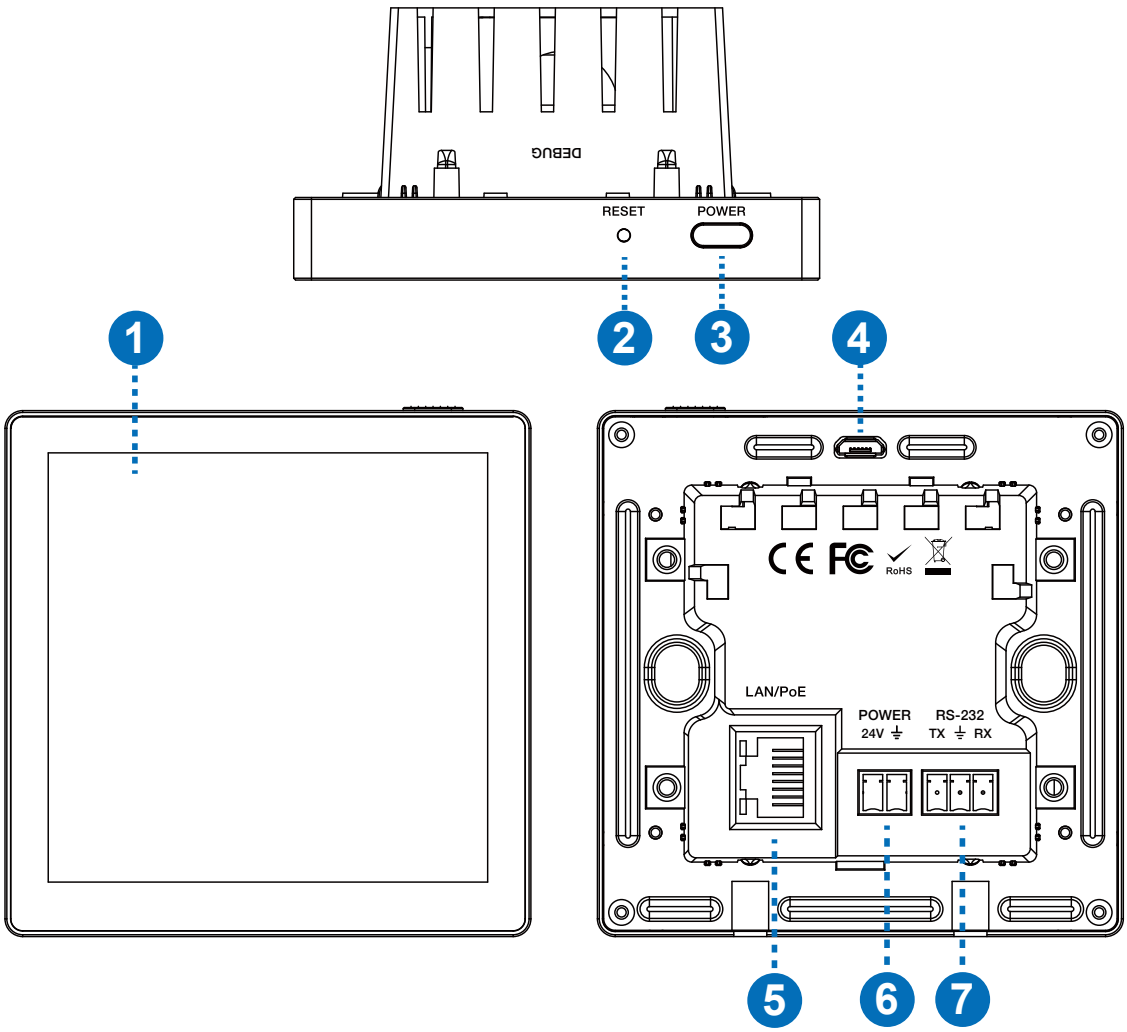
3. Package Contents

① 1x Programmable Touch Panel (Wall-in)
② 1x 3pin-3.81mm Phoenix Connectors (male)
③ 1x 2pin-3.81mm Phoenix Connectors (male)
④ 1x Wall Mounting Bracket
⑤ 2x Bracket Fixing Screw
⑥ 1x User Manual

4. Specifications

Technical	
CPU	ARM Cortex-A55 1.8GHz
Operation System	Android 11
RAM	4GB DDR4 RAM
Flash Memory	32GB EMMC Flash
Resolution	480*480
Touch Type	Capacitive Touch Screen
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
RS-232	1x 3-pin Phoenix Connectors, for RS-232 serial data communication
LAN/PoE	1x Standard 10M/100M/1000M Ethernet RJ45 port, supporting PoE function
POWER	1x 2-pin Phoenix Connectors, for power supply
DEBUG	1x Micro USB, system debugging port
Mechanical	
Housing	**Front Panel:** Touch Screen; **Frame:** Plastic **Rear Case:** Plastic
Color	**Front Panel:** Black; **Frame:** Black **Rear Case:** White
Dimension	86mm (L) × 86mm (H) × 44.5mm (D)
Weight	165g
Power Supply	24V DC/1A or PoE
Power Consumption	5W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Operating Humidity	20% ~ 80% (relative humidity, non-condensing)
Storage Humidity	10% ~ 90% (relative humidity, non-condensing)

5. Operation Controls and Functions



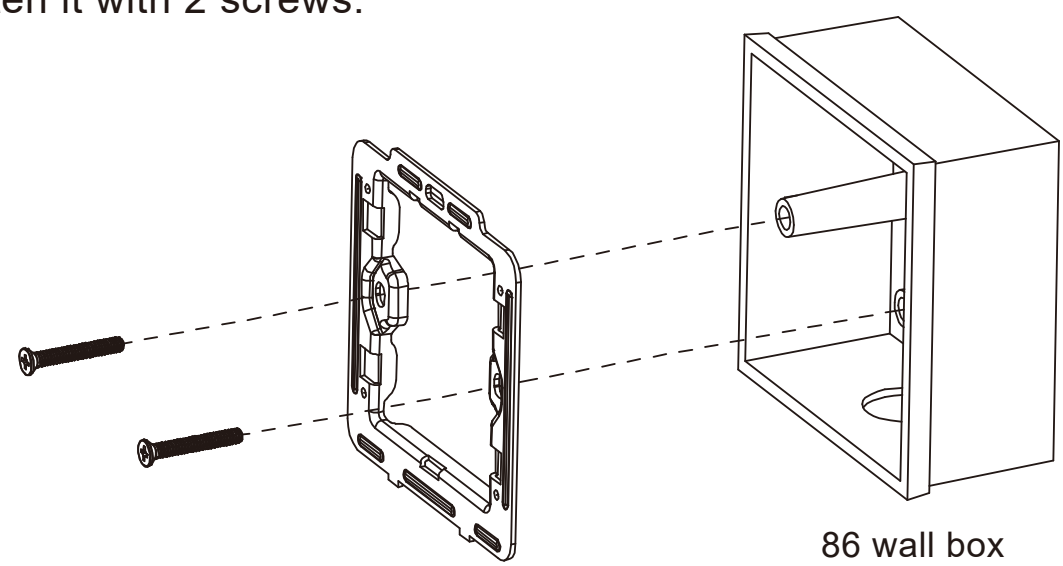
No.	Name	Function Description
1	Touch Screen	Capacitive touch screen. The user control interface can be configured through the IDE tool.
2	RESET button	**Reboot:** After the device boots up, press and hold the RESET button for more than 1s less than 5s, then release it, the device will reboot. The device won't upload the user projects after rebooting. **Reset:** After the device boots up, press and hold the RESET button for more than 5s, then release it, the device will reset the user configuration information, the IP will be restored to the default settings (IP address: 192.168.0.101, subnet mask: 255.255.0.0), the login password of the management page will be initialized to "admin", the device time will be initialized to automatic acquisition mode, but user projects won't be deleted by factory initialization.

No.	Name	Function Description
3	POWER button	Used for screen off or wake-up.
4	USB port	Micro USB port. The reserved port for system debugging.
5	LAN/PoE port	Standard 10M/100M/1000M Ethernet RJ45 port with default auto-negotiated speed for device connection, projects uploading & downloading, network communication and debugging. By default, the DHCP function of the control panel is disabled, and the IP setting is as follows: IP address: 192.168.0.101, subnet mask: 255.255.0.0
6	POWER port	The power input port (2-PIN phoenix connectors), used for connecting with external 24V DC power supply.
7	RS-232 port	Programmable RS-232 serial port, which is a 3-pin phoenix connector (male), compliant with RS-232 communication protocol, and capable of configuring 8 baud rates in the range of 2400-115200bps. The pin-outs of the RS-232 port are PIN1 for TX, PIN2 for GND, and PIN3 for RX.

6. Mounting Instruction

This wall-in touch panel can be mounted on a standard 86 wall box, the mounting steps are as follows.

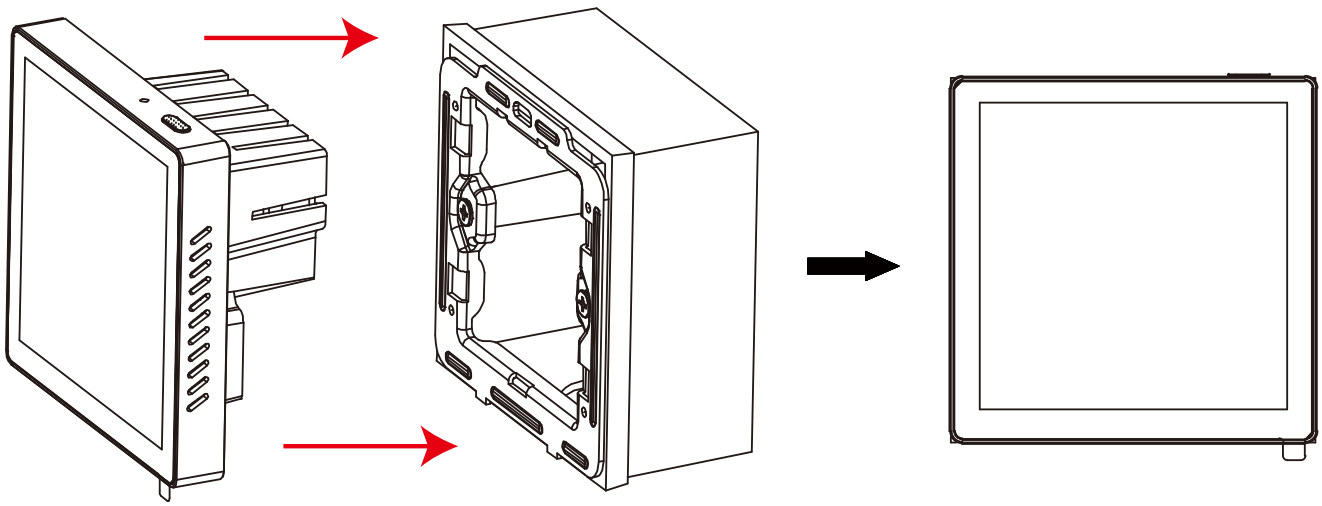
Step 1: Install the included wall mounting bracket onto the 86 wall box and fasten it with 2 screws.



86 wall box

Wall mounting bracket

Step 2: Align the back of the touch panel with the slots of the wall bracket and push it in. Press the aluminum edge of the touch panel to ensure that the buckles are in place, and the installation is complete.

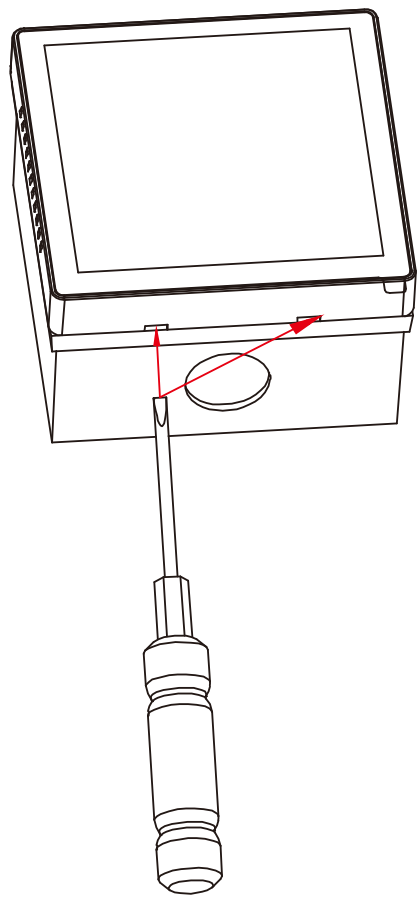


Touch panel

86 wall box

Effect after installation

To remove the mounted touch panel, insert a screwdriver into the two holes indicated by the arrows and pry the machine out of the bottom box.



7. Application Example