

Tuya Smart

Smart Control Panel 8 Pro

Product datasheet

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1. Product Overview

The Smart Control Panel 8 Pro, powered by Android, serves as a gateway, interactive hub, and scene control panel for the home. Installed in a standard 86 wall box, users can easily manage connected devices via touch or voice.

As the core of whole-home automation, the Control Panel puts control at your fingertips—playing music, activating lights and AC when arriving home, or switching to nighttime security with smooth, responsive interactions across scenarios.

Its 8-inch HD screen offers clear visuals, while built-in high-fidelity speakers and dual amplifier ports support immersive sound for any mood. Integrating with a voice assistant enables natural, hands-free control of the entire home, enhancing daily life with ease and quality.

2. Application Areas

- ✧ Smart Hotels
- ✧ Smart Home / Appliances
- ✧ Lighting industry
- ✧ Background music industry

3. Product Features

1) Zigbee & Bluetooth Gateway

Zigbee and Bluetooth independent chips, integrate Zigbee and Bluetooth gateway functions, support Bluetooth BLE & BLE mesh sub-devices, and have edge capabilities for localized control.

2) Device control

Fully compatible device access and diversified control forms are compatible with almost all Tuya ecological devices.

3) Scene control

Custom physical buttons, screen interaction, and voice interaction can trigger scenes to meet different needs in life.

4) iShare™ Technology

In-depth customization of the interconnection center, support for IPC preview monitoring, video and voice calls, direct interconnection between central control and central control, as well as central control and APP.

5) Rich interface

A variety of base forms are supported. The standard base uses zero-fire wire wiring and supports dual relays, an RJ45 network port, RS485, dual amplifier ports, etc.

6) Online music

You can play music directly on the center control while supporting external Bluetooth speakers and background music speaker output, enjoying high-quality hi-fi sound.

7) Easy to install

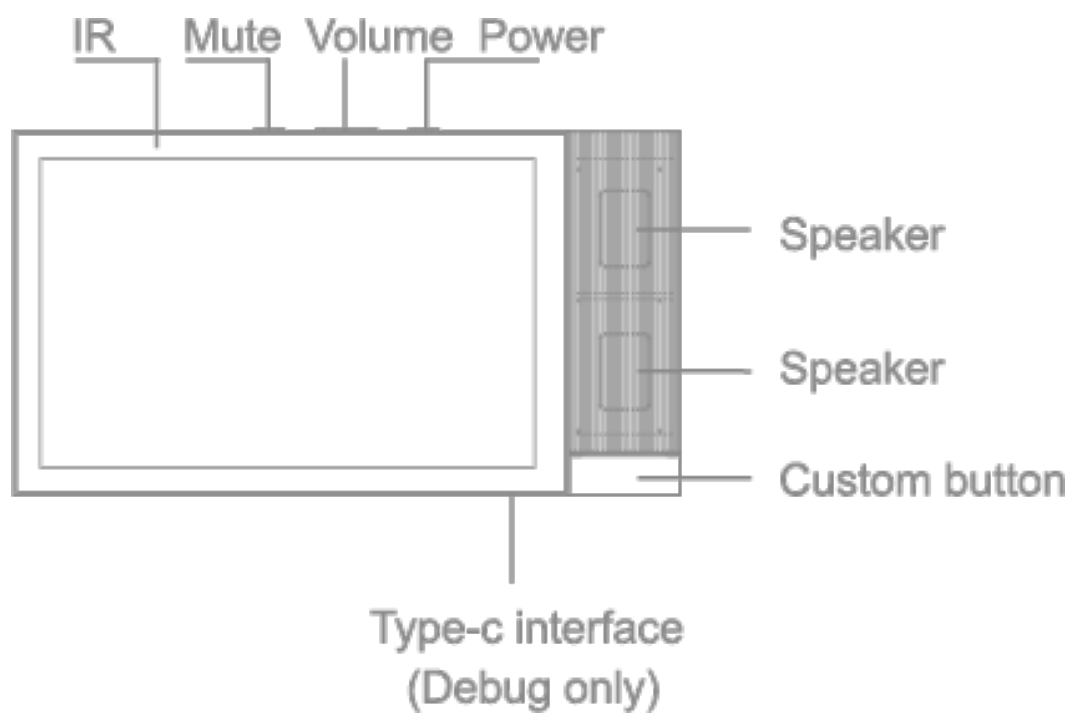
Zero firewire installation with a standard plastic concealed box can complete the intelligent upgrade.

8) Alexa Built-in

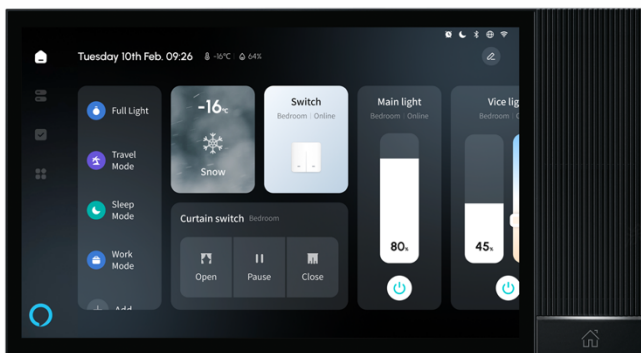
The product has a built-in Alexa Assistant that can check the weather, play music, control devices, and more in one sentence.

4. Product Specification

4.1 Product Function Schematic



4.2 Basic product information

Basic Information			
Product Model		TPA08-M3 series	
Product Name		Smart Control Panel 8 Pro	
Image			
Enter		100-240VAC , 50/60Hz	
Wireless Protocol		Wi-Fi 2.4GHz & 5GHz, Bluetooth, Zigbee	
Operating Temperature		0~40℃	
Operating Humidity		5%-90% RH (non-condensing)	
Size		127.5*233.5*38mm	
Hardware Specifications			
Chip Solution	CPU	Architecture	Quad-core ARM Cortex™-A55
	GPU	Model	RK3566
	Wi-Fi & Bluetooth	Typology	WiFi6 2.4GHz&5.8GHz, IEEE 802.11b/g/n,Bluetooth 5.2
	Storage capacity	RAM	2GB
		ROM	16GB
Interface	Power Supply	Input	100 ~ 240 VAC (±10%), 50/60Hz +-3Hz Live &Neutral
	485 interface	Norm	485 interface (EU not included)

	Ethernet	Norm	1*100M RJ45 (EU not included)
		Type	up
	screen	Sizes	8 inches.
		Resolution	1280*800
		Type	Multi-touch capacitive screen, anti-fingerprint coating
	Switch	Type	100-240V 50/60HZ 16A (two relays) (EU not included)
		Single load	200 VA MAX (EU not included)
		Total load	400 VA MAX (EU not included)
	IR	Number	Built-in 3 infrared emitters
	Microphone	Number	2 Mike
	Built-in speaker	Number	2 Speakers
	Built-in speaker	Singer power	2W
	Amplifier Interface	Interface Type	L-, L+, R-, R+
	External speakers	Type	Impedance 8Ω, power 30W
	antenna	Number	4
		Type	Built-in Shell Antenna

4.3 Software functions introduction

Software function		
operating system		Android 11
Login Method		Scan code to authorize login
Central Control OS Interaction & Home Page	global interaction	Pull down notification control center
		global return
		button label
		Status notification toast
	Navigation Bar	function module switch
		weather display
	Homepage	Device and scene custom components
		Main page position sorting addition and deletion management
		Pull down notification control center
Device scene control function		Physical buttons to control devices & scenes
		Support all Tuya ecological equipment control , including group , infrared
		Support one-click execution
		Support lighting scene
		Support device sorting
		Support LAN control device
		Support LAN control one-tap-to-run scenarios
		Device management
Zigbee & Bluetooth gateway function		128+ sub-devices supporting Zigbee communication type network access (lab environment)

		Support 128+ sub-devices of BLE/SigMesh type to access the network (lab environment)
		OTA support
		Support LAN device and scene control
		Support local linkage across gateways and communication protocols
		Support Bluetooth device pairing, file transfer
		Support Bluetooth audio output
Infrared control		Support for controlling infrared devices
Features	T-Control TM	1 custom physical buttons , associated with any device and scene
		Quick panel device control , multi-control on one screen
	iShare TM	Support IPC device preview, pull stream view
		Support intercom with IPC
		Support local camera image streaming, view real-time video on the APP side
		Audio and video interconnect calls with other devices
	Support for switching audio outputs	Supports selection of amplifier output audio

5. Installation Guide

5.1 Installation Preparation

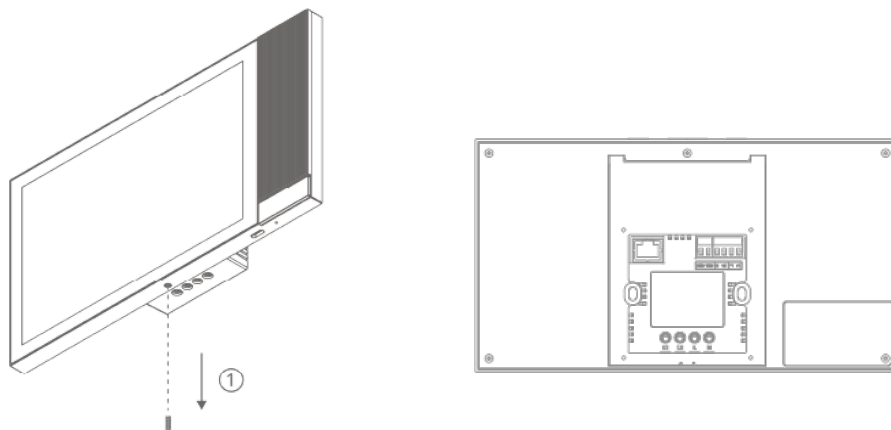
- 1) This product is powered by the neutral wire. Please arrange the neutral wire in advance;
- 2) This product is connected to the network through Wi-Fi or Ethernet. Please arrange the WiFi network or Ethernet cable in advance;
- 3) If you want to use the relay, RS485, security network port of this product, please preset the relevant cables in advance;
- 4) To ensure electrical safety and wireless performance, please use a plastic box that meets the JB/T 8593 standard or has a depth of more than 40mm.
- 5) Please bring your screwdriver, test pen, electrical tape, and other tools; please do not operate with electricity.

Installation Notes

- In order to ensure the correct use of this product, it must be installed, maintained and disassembled by a professional electrician.
- Before installing and disassembling this product, the main power switch must be cut off to prevent electric shock.
- This product should be kept away from fire and water sources during installation and use and should not be used in humid environments (such as bathrooms).
- Confirm that the voltage is in line with the working voltage of this product before use, and do not insert the PoE network cable into the network port.

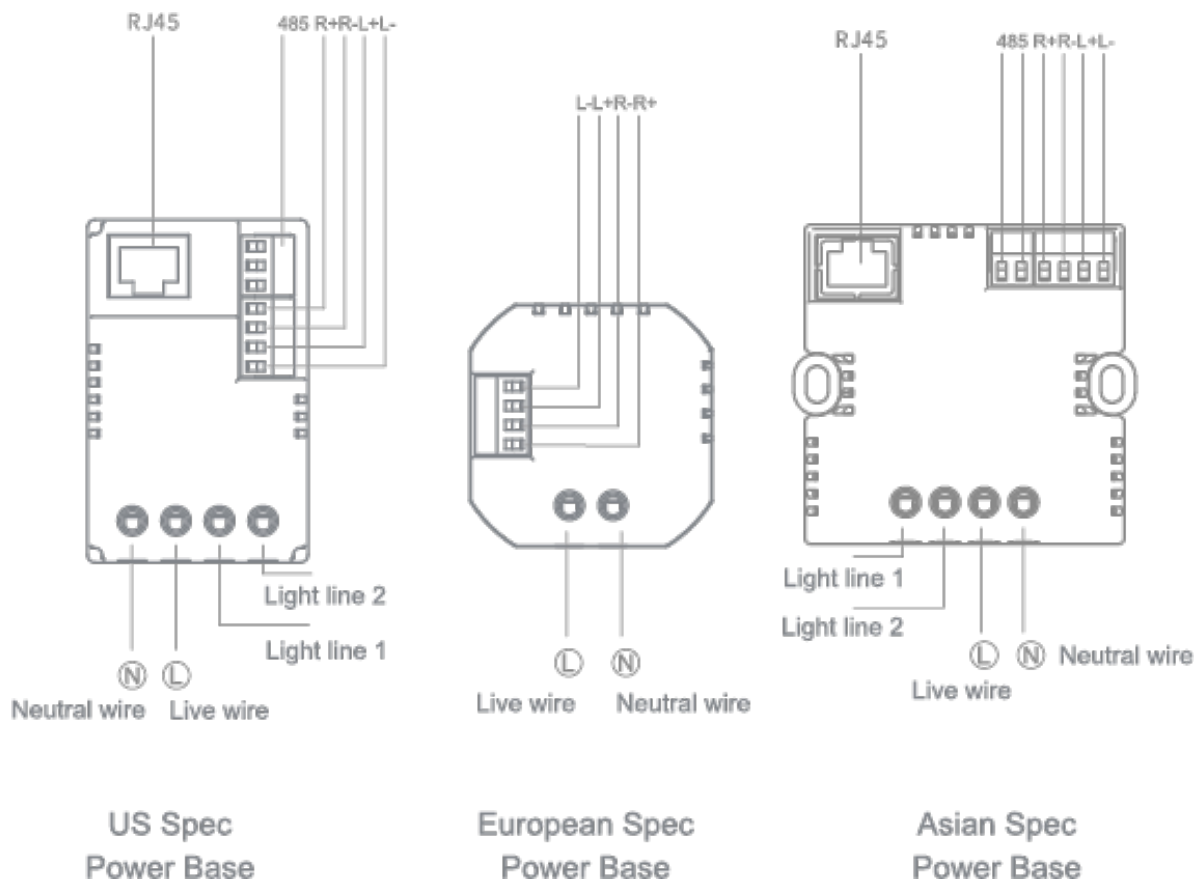
5.2 Installation Instructions

- Turn off the main power switch, and use a test pen to confirm that the live wire of the cassette is not charged.
- Remove the Panel and in-wall power base (below):



- ① Remove the screws at the bottom, and then remove the panel and the power supply base.

⚠ Please connect according to the actual marking on the product.



L: Live wire input

N: Neutral wire input

L1: Light line 1

L2: Light line 2

Stripping length 10mm

RJ45: Wired Network port

A: 485

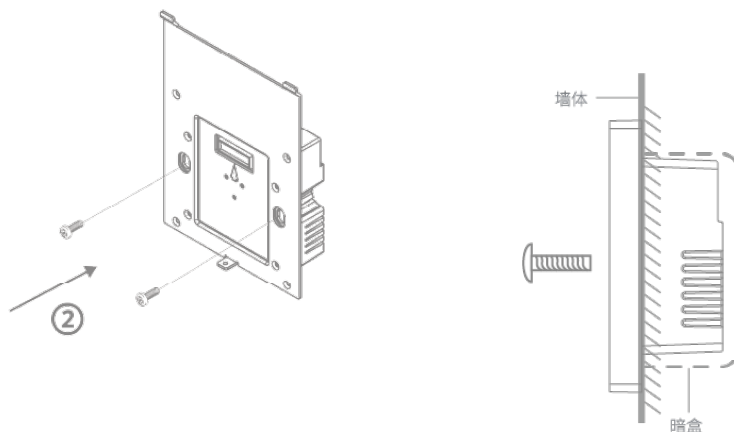
B: 485

R-R+: External Speaker

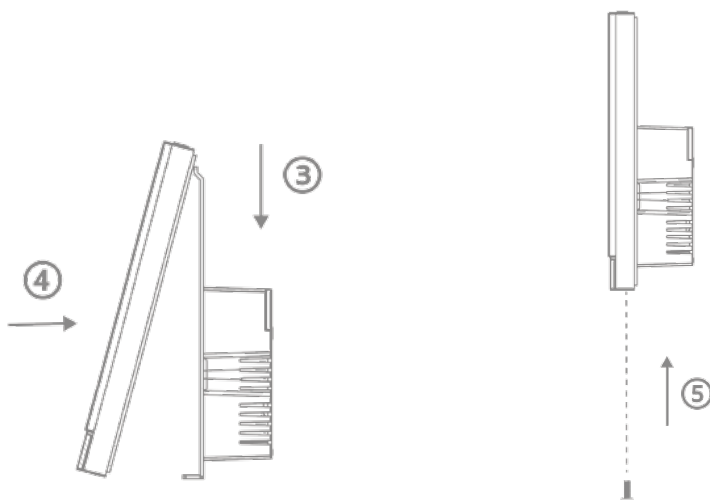
L-L+: External Speaker

- Connect the base correctly, making sure that the copper wire and the terminal are well released and that there is no exposed wire.

- ② Use mounting screws to fix the base into the concealed box.



- ③ Align the panel with the base bracket from top to bottom.



- ④ Close the panel and the base.
⑤ Attach the bottom screws to fix it.

Pay Attention: Do not use force when installing the screws so as not to cause deformation of the bracket.

Version Update Record

Num	Update	Updates content	Version
1	2024-9-17	First edition	V1.0
2	2024-10-10	Modify some parameters, add installation instructions to the function description	V1.1
3	2024-12-27	Increase relevant parameters for European Spec and US Spec.	V1.2