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Table of Contents

About Smatek.....	01/02
Solutions.....	03/04
Certificates.....	05/06
Open Android/Linux Panels (Optional PoE/AC100–240V)	
T13PE-NZ Series -- 13.3”.....	07/08
T10E-NZ Series -- 10.1”.....	09/10
S9E-NZ Series -- 10.1”.....	11/12
T8E-NZ Series -- 8”.....	13/14
T7E-NZ Series -- 7”.....	15/16
S8E-NZ Series -- 6”.....	17/18
S6E Pro-NZ Series -- 4”.....	19/20
KNX Panels	
T10KE/S9KE.....	21
S8KE/S6KE.....	22
Tuya Android/Linux Panels	
T8E.....	23
S8E/S6E.....	24
S3EL	25/26
P6EL.....	27/28
T6E/P6EL.....	29
S3EL/S9E.....	30
Embedded Board Solutions	31/32

Company Profile ▾



About Company ▾

Smatek Electronics Limited, established in 2012, located in Shenzhen, China, is a leading designer and manufacturer of Smart Building Automation Panels. Providing High-end Smart Building Display Solutions for Fortune 500 brands and Listed Companies as OEM/ODM projects.

Our products fully integrate 5G+AI+IoT+Cloud Computing technologies, by simply installing on the wall, users can easily manage their smart home devices: Switches, sockets, dimmings, color adjustments&RGB, curtains, air conditioners, underfloor heatings, fresh air ventilators and all other smart devices etc. at their fingertips, manage and control various smart devices with multiple functions - ON & OFF, devices display as icons, scenes control, AI voice intercom etc.

Smatek has a strong R&D team, OEM/ODM welcome.

Industrial Design (ID)

Mechanical Design (MD)

PCBAs Design

Android/Linux OS Customization (SDK)



Numerical Highlights ▾

13+

Company History

30+

Products Categories

18+

Number of Patents

100+

Finished Projects

200+

Global Famous Clients

Cooperation Options ▾

- **Cooperation 1 Standard Wired KNX/ Wireless Tuya**
Ready-to-use KNX(Standard KNX module and firmware), or Tuya firmware (incl. Tuya Smart App and users interface, with tuya zigbee).
- **Cooperation 2 Non Tuya (Open android/linux)**
We ship you panel with open android firmware burnprocessed, but you do users' interface and APK etc. (For buyer side secondary development, no or with tuya zigbee).
- **Cooperation 3 OEM (Open android/linux)**
We ship you panel with your customized firmware burnprocessed by your offered APK file, but you do users' interface and APK etc. (For buyer side secondary development, no or with tuya zigbee).

Firstly by cooperation 2 you can order our open android panels for your side app debugging purpose, after your app completed with more control functions by our API provided, you can send us your app and we pack into firmware, finally we work by cooperation 3

Solution Highlight



Visualization
Integrates with video intercom and smart community systems



Various built-in sensors
Brightness/proximity, temperature and humidity, infrared sensors, enhancing the smart control panel's user experience.



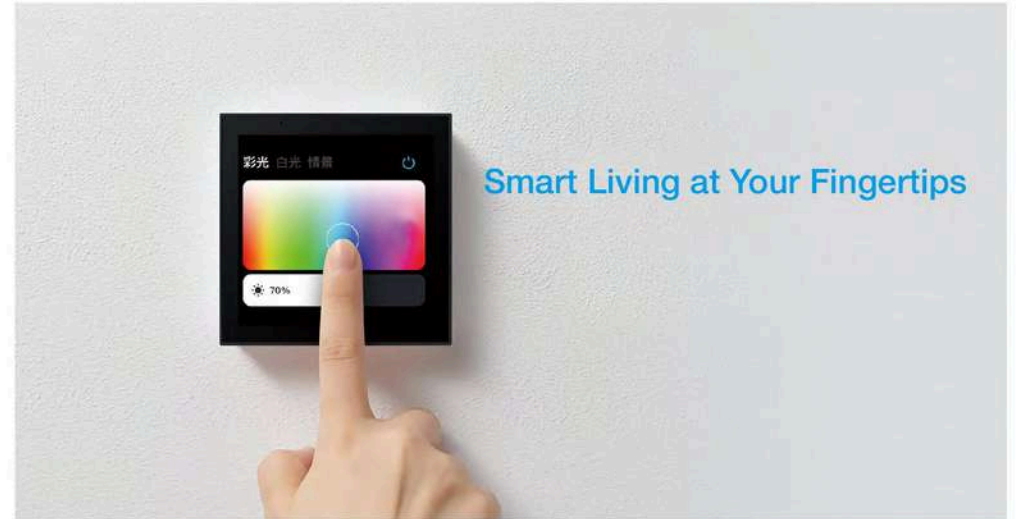
Flexibility
The solutions adopt Android / Linux OS, offering One-Stop high-performance large screen and cost-effective small screen touch panels to satisfy customers' various demands.



The core original solutions provider
Exporting to Fortune 500 and Listed Companies. Strict quality control.

Supports various protocols:

KNX, Zigbee, WiFi, Bluetooth Mesh, RS485 and PLC etc.



Smart Living at Your Fingertips

Multi- functional smart control panels

Designed for Internet of Things (IoT) applications, perfect solutions for your residential and commercial buildings automation systems, can be used as a display tablet and touch screen controller for wired or wireless control of other smart devices, gateway hub for automatic scenes control.



Certifications



Appearance Patent S9/S9E



Appearance Patent S6/S6E



Utility Model Patent

Certifications & Awards



SGS FCC



SGS CA65



ISO 9001



SGS CE



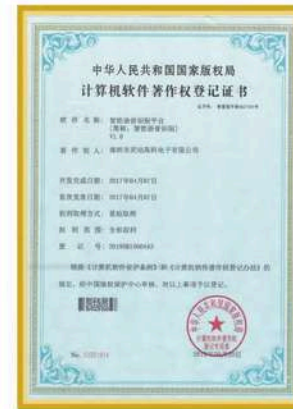
SGS REACH



SGS ROHS



Android Cloud Terminal Management System V1.0



Smart Voice Command System V1.0



The 2022 Aladdin's Lamp Award

Open Android/Linux Control Panels

Key Features:

1. Open API for development

Develop your software based on our hardware and standard APIs.

2. Optional Power supply:

AC 110- 240V or PoE DC12-24V

3. Wireless module optional:

Pre-reserve a wireless module interface on the mainboard. Easily integrate Mesh, Zigbee, or other wireless modules to extend device connectivity.



Smatek Open Android/Linux Series panels provide robust hardware, a stable operating system foundation, and open APIs—empowering you to develop your own branded smart home control applications with fully customized interfaces.

Open Android/Linux Panel

API support for custom application



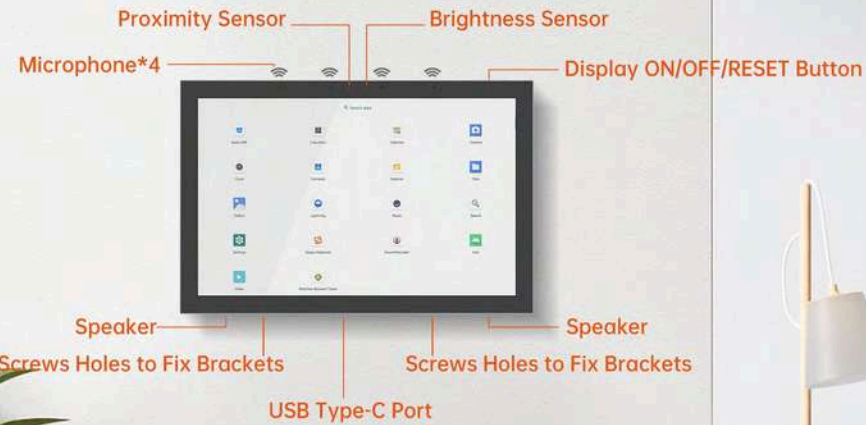
10.3-Inch T13PE-NZ Series



Model	T13PE-NZ
Screen	13.3 Inch 1920*1200
CPU	RK3566
RAM + ROM	2GB + 32 GB
OS	Android 11 (Linux Optional)
Wi-Fi & BLE	2.4/5GHz Wi-Fi, BT 5.4
Mic & Speaker	4-Mic Linear Array, 2*1W Speaker
Sensors	Brightness, Proximity
Power Supply	DC 9V-24V, PoE
Ports	RS485, RJ45

Open Android/Linux Panel

API support for custom application



10.1-Inch T10E-NZ Series



T10PE-NZ



T10RE-NZ



T10VE-NZ

Model	T10PE-NZ	T10RE-NZ	T10VE-NZ
Screen	10.1 Inch 1280*800/1920*1200		
CPU	RK3566B/RK3576		
RAM + ROM	2GB + 32GB		
OS	Android 11 (Linux Optional)		
Wi-Fi & BLE	2.4G/5G Wi-Fi, BT/BLE 5.4		
Mic & Speaker	4-Mic Linear Array, 2*1W Speaker		
Sensors	Brightness, Proximity		
Power Supply	DC 9V-24V, PoE	AC 100-240V	AC 100-240V
Ports	DC + RS 485 + RJ 45 (PoE)	RJ45 + Relay*2	DC + RS 485 + RJ 45*2

Open Android/Linux Panel

API support for custom application



Brightness Sensor

Microphone*4

Camera(For ODM only)

Camera (ODM Only)

Scene switch

Scene switch

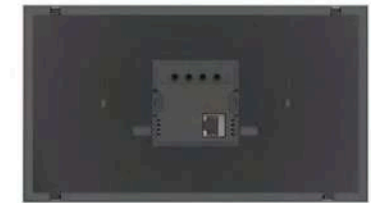
1M Radar proximity sensor built in

Scene switch

10.1-Inch S9E-NZ Series



S9PE-NZ

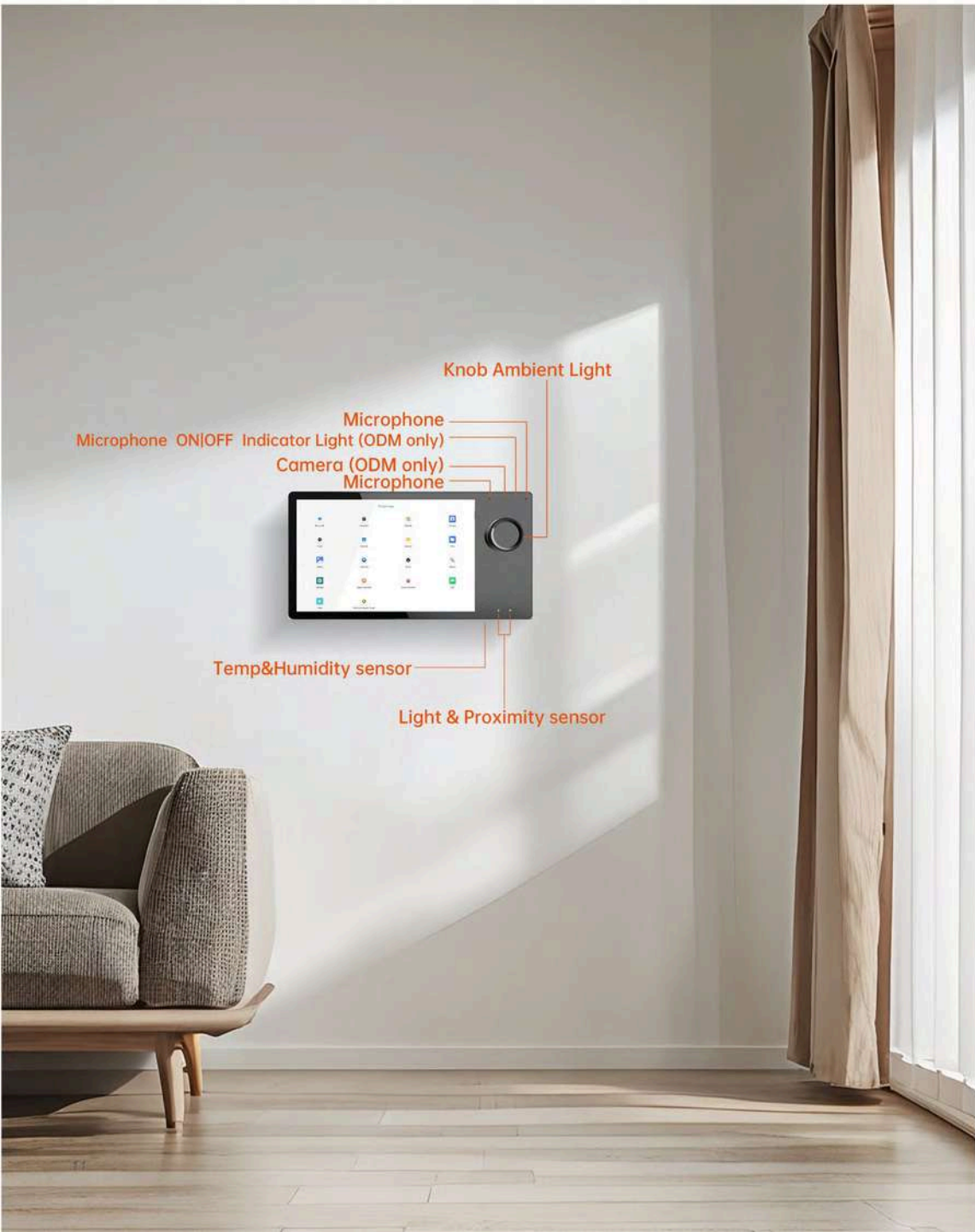


S9E-NZ

Model	S9PE-NZ	S9E-NZ
Screen	10.1 Inch 1920*1200	
CPU	RK3566B	
RAM + ROM	2GB + 16/32GB	
OS	Android 11 (Linux Optional)	
Wi-Fi & BLE	2.4G/5G Wi-Fi, BT/BLE 5.2	
Mic & Speaker	4-Mic Linear Array, 2*1W Speaker	
Sensors	Brightness, Proximity, Temperature & Humidity	
Power Supply	DC 9V-24V, PoE	AC 100-240V
Ports	RS485, RJ45	RJ45, Relays*2

Open Android/Linux Panel

API support for custom application



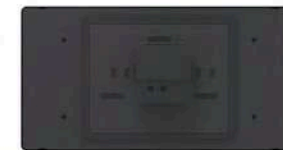
8-Inch T8E-NZ Series



T8PE-NZ



T8E-US-NZ



T8E-EU-NZ



T8E-AS-NZ

Model	T8PE-NZ	T8E-EU-NZ	T8E-US-NZ	T8E-AS-NZ
Screen	8 inch 1280*800			
RAM + ROM	2GB + 16/32GB			
OS	Android 11 (Linux Optional)			
Wi-Fi & BLE	2.4G/5G Wi-Fi, BLE 5.4			
Mic & Speaker	2-Mic Linear Array, 2*1W Speaker			
Sensors	Brightness , Proximity, Temperature & Humidity			
CPU	PX30(Linux)/RK3326S(Android)			
Power Supply	DC 9V-24V, PoE	AC 100-240V		
Ports	RJ45, RS485	N/A	Relays*2	RS485, Relays*2

Open Android/Linux Panel

API support for custom application



7-Inch T7E-NZ Series



T7PE-NZ



T7E-NZ

Model	T7PE-NZ	T7E-NZ
Screen	7 inch 720*1440	
CPU	RK3566	
RAM + ROM	2GB + 16GB	
OS	Android 11 (Linux Optional)	
Wi-Fi & BLE	2.4G/5G Wi-Fi, BLE 5.4	
Mic & Speaker	4-Mic Linear Array, 2*1W Speaker	
Sensors	Brightness, Proximity	
Power Supply	DC 9V-24V, PoE	AC 100-240V
Ports	RS485, RJ45	RS485, RJ45, Relays * 2

Open Android/Linux Panel

API support for custom application



Brightness Sensor
 Rotary Switch
 Shortcut Display
 Main Display
 Micro USB
 Temperature&Humidity Sensor

6-Inch S8E-NZ Series



S8PE-NZ



S8E-NZ

Model	S8PE-NZ	S8E-NZ
Screen	6 Inch 1440*720	
CPU	PX30	
RAM + ROM	2GB + 8GB	
OS	Android 8.1 (Linux Optional)	
Wi-Fi & BLE	2.4G Wi-Fi, BLE 4.2	
Mic & Speaker	4-Mic Linear Array, 1*1W Speaker	
Sensors	Brightness, Proximity, Temperature&Humidity Sensor	
Power Supply	DC 9V-24V, PoE	AC 100-240V
Ports	RS485, RJ45	RS485, RJ45, Relays*2

Open Android/Linux Panel

API support for custom application



4-Inch S6EPro-NZ Series



S6PE-NZ



S6EPro-NZ

Model	S6PE-NZ	S6E PRO-NZ
Screen	4 inch 480*480	
CPU	PX30	
RAM + ROM	2GB RAM + 8GB ROM	
OS	Android 11 (Linux Optional)	
Wi-Fi & BLE	2.4/5GHz Wi-Fi, BT5.4, BLE5.4	2.4/5GHz Wi-Fi, WiFi6, BLE5.2
Mic & Speaker	2-Mic Linear Array, 8Ω 1W*1 Speaker	
Sensors	Brightness, Proximity	
Power Supply	DC 9V-24V, PoE	AC 100-240V
Ports	RS485, RJ45	RS485, RJ45, Relays*2

KNX Multi-functional Control Panel

Smatek Electronics Limited, a global innovator in smart control and display solutions, as a member of the KNX Community! With a strong focus on integrated automation systems, Smatek delivers KNX-based smart touch panels and custom hardware/software solutions that enhance home and building automation. Our commitment to innovation supports the growing ecosystem of intelligent, interoperable technologies powered by KNX

Supported total devices and scenes ≤ 150 or 150 scenes

Device Types: Switch, dimming Light, color temperature lamp, curtains – roller blinds, curtains – sliding curtains, air conditioners, underfloor heatings, fresh air ventilators

Device Quantities: single or multiple device types ≤ 150



Multi-functional Control

Lights Control



Curtains Control



Scenes Control



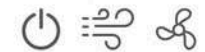
Aircon / FCU Control

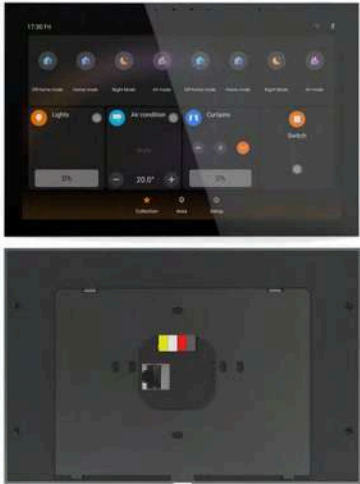


Underfloor Heatings Control



Fresh Air Ventilators Control





Model	T10KE
Screen	10.1 Inch 1280*800/1920*1200
CPU	RK3566B/RK3576
RAM + ROM	2GB + 32GB
OS	Android 11 (Linux Optional)
Wi-Fi & BLE	2.4G/5G Wi-Fi, BT/BLE 5.4
Mic & Speaker	4-Mic Linear Array, 2*1W Speaker
Sensors	Brightness, Proximity
Power Supply	DC 21-30V
Ports	DC + KNX bus + RJ45



Model	S8KE
Screen	6 Inch 1440*720
CPU	RK3566B
RAM + ROM	2GB + 8GB
OS	Android 8.1 (Linux Optional)
Wi-Fi & BLE	2.4G Wi-Fi, BLE 4.2
Mic & Speaker	4-Mic Linear Array, 1*1W Speaker
Sensors	Brightness, Proximity, Temperature & Humidity
Power Supply	DC 21-30V
Ports	DC + KNX bus + RJ45



Model	S9KE
Screen	10.1 Inch 1920*1200
CPU	RK3566B
RAM + ROM	2GB + 16/32GB
OS	Android 11 (Linux Optional)
Wi-Fi & BLE	2.4G/5G Wi-Fi, BT/BLE 5.2
Mic & Speaker	4-Mic Linear Array, 2*1W Speaker
Sensors	Brightness, 1M Radar Proximity, Temperature & Humidity
Power Supply	DC 21-30V
Ports	DC + KNX bus + RJ45

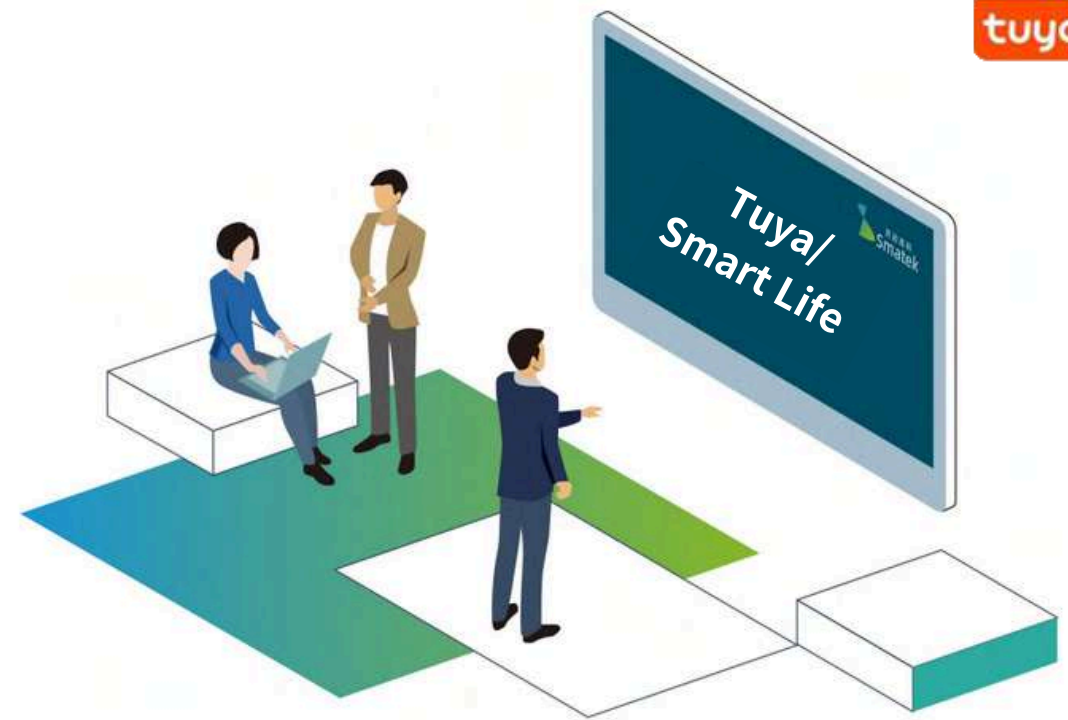


Model	S6KE
Screen	4 inch 480*480
CPU	PX30
RAM + ROM	2GB + 8GB
OS	Android 11 (Linux optional)
Wi-Fi & BLE	2.4/5GHz Wi-Fi, BT5.4, BLE5.4
Mic & Speaker	2-Mic Linear Array, 8Ω 1W*1 Speaker
Sensors	Brightness, Proximity
Power Supply	DC 21-30V
Ports	DC + KNX bus + RJ45

Tuya Zigbee Gateway Control Panel

Key Features:

1. Built-in Tuya Zigbee Gateway.
2. Supports 100+ Tuya Wi-Fi and Zigbee Standard Devices.
3. Configure smart home scenes in the Tuya/Smart Life APP, turn on/off the scene mode with one touch on the screen.



Smatek Smart home control panel is built in Tuya Zigbee Gateway that can bind with and manage various Tuya Zigbee and WIFI smart devices, support work with Alexa/Google, device control, scene interactions, and ZigBee gateway function.

Support 100+ Tuya Standard devices like lights, switches, sockets, sensors, thermostats, curtains, A/C, camera, video doorbell, smart lock, etc.



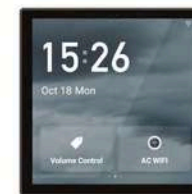
T8E

- WiFi for network connections, Tuya ZigBee 3.0 gateway, and 100+ Tuya Standard devices control.
- Supports work with Alexa/Google.
- Supports uploading local music and the App function.
- Asian/EU/US optional back base, one design for global users.
- Asian/US base has 2 Gang relays, supports wired connections for lights, switches, etc.
- Scenes Switch *2, Knob for control Light, temperature, volume.



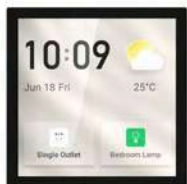
S8E

- Support work with Alexa/Google
- Tuya Smart or Smart Life APP remote control
- Fit Asian 86mm*86mm wall boxes, simple inwall installation
- WiFi for network connections, Tuya ZigBee 3.0 gateway, and 100+ Tuya Standard devices control
- All-in-one knob screen controls light brightness, aircon. temperatures, curtain folding percentage
- Auto brightness sensor, proximity sensor, temperature and humidity sensor built in



S6E

- WiFi for network connections, Tuya ZigBee 3.0 gateway, and 100+ Tuya Standard devices control.
- Support work with Alexa/Google.
- Designed for standard 86mm mounting boxes in Asian market.
- 2 Gang relays supports wired connections for lights, switches, etc.
- Auto brightness sensor, proximity sensor built in



T6E

- 4 Inch Smart Control Panel (480*480)
- PX30 Chipset
- Android 8.1, 1GB RAM + 8GB ROM
- Built-in quadruple array microphones
- 1 * 1W Speakers
- Fits EU/UK/UAE wall boxes



S3EL

- WiFi for network connections, Tuya ZigBee 3.0 gateway, and 100+ Tuya Standard devices control.
- Support work with Alexa/Google.
- Designed for standard 86mm mounting boxes in Asian market.
- Scenes Switch*3, 3 Gang relays supports wired connections for lights, switches, etc.



P6EL

- WiFi for network connections, Tuya ZigBee 3.0 gateway, and 100+ Tuya Standard devices control
- Support work with Alexa/Google.
- Compatible with the U.S. standard wall boxes, available in vertically or horizontally mounting.
- 3 Gang relays supports wired connections for lights, switches, etc.



S9E

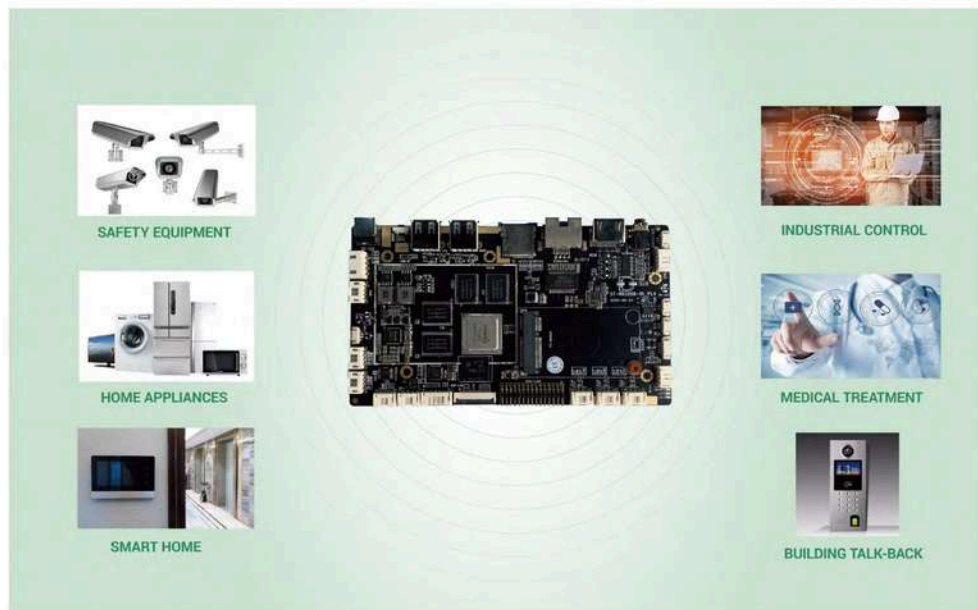
- WiFi for network connections, Tuya ZigBee 3.0 gateway, and 100+ Tuya Standard devices control
- Supports work with Alexa/Google
- Supports uploading local music and the App function
- 4 Scene control buttons
- Tuya Smart or Smart Life APP remote control
- Fit Asian 86mm*86mm wall boxes, simple in-wall installation
- Auto brightness sensor and proximity sensor built-in

Android/Linux embedded board solutions

Smatek HMI board is working on Android/Linux operating system, designed for customer's convenience running their products under "Android" control unit.

It supports Serial interface with customer device, by sending commands from customized APP, customer would easily finish their control unit development.

We offer customized/standard solution for various customer's requirement, application, including smart home, security monitor, identity register system, smart locker, harvesting implements, industrial control unit, etc



Standard Android/Linux HMI Boards List

Smatek P/N	SOC	RAM+ROM	OS
ST-Android-PX30-01	Quad-core Cortex™-A35	2G+8G	Android 8.1/Linux
ST-Android-3576-01	Cortex-A72 + Quad-Core Cortex™-A53	2G+16GB/32GB	Android 11/Linux
ST-Android-3566-01	Quad-core Cortex™-A55	2G+16GB/32GB	Android 11/Linux
ST-Android-3288-01	Quad-core Cortex™-A17	2G+8G	Android 8.1
ST-Android-RK3399	Dual-Core A72, Quad-core A53	4G+16G	Android 7.1
ST-Linux-R528-S6EL	Double-core Cortex™-A7	128M+256M	Linux Buildroot
ST-Linux-3308-S6EL	Quad-core Cortex™-A35	128M+256M	Linux Buildroot

Difference between Linux and Android

OS	OS startup time	Speed of App runing	Stability
Linux	Faster	2G+8G	More Stable
Android	Fast	2G+8G	Stable