

## **Configuration Guide for Tuya Public Panel**

Panel Development > Configuration Guide for Tuya Public Panel

Version: 20200221



## Contents

1	Panel configuration of SoC products — Take Wi-Fi four-way socket as an example	2
	1.1 Functional Requirements of Products	2
	1.2 Display of Standard Panel	4
	1.3 Configuration Steps	5
2	.Panel configuration for MCU products — Take Wi-Fi air purifier as an example	18
	2.1 Functional Requirements of Products	18
	2.2 Display of Standard Panel	20
	2.3 Configuration Steps	21
	2.4 Precautions	25
2	Public Danal Configurable Itoms	26
3	Public Pariel Configurable Items	20

## Note:

ะบบด้

- Currently, the function of preview App Control Panel by scanning QR code is only available to the App accounts in China.
- Virtual devices are not supported well by bluetooth and ZigBee products, so problems may occur when preview the panel by scanning QR code. The final effect of the panel is subject to the real display of device.

# 1 Panel configuration of SoC products — Take Wi-Fi four-way socket as an example

### Common categories: power accessories, smart LED lighting

Products use SoC development-free solutions only allow changes on the panel appearance and panel texts but not the function points.

## 1.1 Functional Requirements of Products

A four-way socket with two Chinese national standard sockets and two USB sockets

## 1.2 Display of Standard Panel



## **1.3 Configuration Steps**

#### 1.3.1 Set the Panel Style

In this section, you can change the pattern styles of the panel. The fixed style template and custom template are provided on the platform.

a) Select a custom panel (only the panels have Custom tag in the upper left corner support custom modifications).



#### **Figure 1:** 1

b) After selected, enter the template editing interface.



## Figure 2: 2

#### c) Set UI background.

In this module, you can choose the background type of the App panel to set the keynote of the panel.

You can choose to use either a background color or a background image as the background of the panel. After editing, you can preview the effect by scanning the **QR code** on the right side of the page.

#### I) Background color

You can choose a preset color or use the hexadecimal RGB colors for background color. After finish, click  ${\tt Save}.$ 

← Back	Interface configuration	Content has changed. Please save first 🛛 🖻 Save	
	Ul interface background Set UI background. You can select color or picture	Reset	
	Background type:         Background colv         Background mage           Color select: <ul> <li></li></ul>	An Systeman	
	U interface theme color Set U intrice theme color	Save and preview Heart of at a Say Smort APP? Intel row	
	Font color Sist the for color of Ul Interface		

## Figure 3: 3

II) Background image

You can choose a preset image or upload a custom image.

**Note**: Requirements for image: Dimensions: 750px\*1334px, Format: png, jpeg, jpg.



After finish, click Save.

## d) Set UI interface theme color.

In this module, you can choose the theme color of the panel. For example, the theme color in the four-way socket panel is presented as the background color of the main switch.

You can choose a preset color or use a hexadecimal RGB color for the theme color. After editing, click "Save". You can preview the effect by scanning the **QR code** on the right side of the page.



#### e) Set the font color.

In this module, you can choose the font color to be displayed on the panel. You can also change the foreground color of the button icon for the four-way socket panel.

You can choose a preset color or use a hexadecimal RGB color for the font color. Click on the color block next to the color code to use the palette for color selection.

After editing, click "Save". You can preview the effect by scanning the **QR code** on the right side of the page.

tuya.com Product App Service Value-add	d Services Purchase Data Operation Document Cost		Support
⊟ Back	Interface configuration	Content has changed. Please save first	
	Color select: Peacew Peacew Custor:	Post	
	$\label{eq:loss} \begin{array}{c} \mbox{Icon modality} & \mbox{To modify the test about functions, click Multilanguage } \end{array} \right)$		
	Function point Page icon status	Operate	
	Switch 1 OFF ON	Egt	
	Switch 2	Ear	

## f) Edit icon style.

In this module, you can choose the icon style to be displayed on the panel or upload custom images for the icon. You can choose the specification and style of the socket on the four-way socket panel.

#### **Note**: Requirements for images: Dimensions : 336px\*336px, Format: png.

After editing, click "Save". You can preview the effect by scanning the **QR code** on the right side of the page.



 Interface configuration		Content has changed. Please save first 🛛 🔠 Save	
Provent	eet:	1	
Icon modality To modify the	e ted about functions.click Multilanguage >	Preset	
Switch 1	OFF ON	Edit	
Switch 2	OFF ON	Edt	
Switch 3	OFF ON	Edt	
Switch 4	-	Edit	

The modified panel is shown as below.



## **1.3.2** Set the panel text. (Clean up the App cache or re-scan the code if the modification is ineffective.)

You can edit the panel text in the Multilingual module.

# <complex-block>

b) In the Product Information, you can edit the field texts related to the data points.

Com Product	App Service Value-added Se	rvices Pur	rchase Data	Operation	Document Co	st				Support	00
	G Back	Multi-langu	uage Managemen	t							
		Select The select correspon Currently, Chines Rutstar	t multiple language ted language will be th ding language. English you have selected: e Traditional Chir n	yes e one in which the t r will be selected by nese English	ext will be edited and display default if this field is blank. Spanish Prench	ed. The effect of this selection	on on App and depends	on whether there is the text con	gured in the		
		Produc	t Information	APP Interfac	ce Network Co	nnections Guides	Alarm Text	Firmware Upgrade Text			
		Basic pr	roduct information	1			Content modified. S	Save to make it valid Save	Cancel		
		Default p	roduct name	Simplified Chiner	se Engl	ish	Traditional Chines	e Sp <mark>ir</mark> sh			
		tuya sma	rt								
		Product	function point					/			
		S/N	Function point	Attribute	Language key	Simplified Chinese	English	Traditional Chinese	Spanish		
					dp_switch_1	开关1	Switch 1				
		1	switch_1	on	dp_switch_1_on	开启	ON				
				off	dp_switch_1_off	关闭	OFF				
					dp_switch_2	开关2	Switch 2				
		2	开关2 switch_2	on	dp_switch_2_on	开启	ON				C.
				off	dp_switch_2_off	关闭	OFF				400 Cal
					dp_switch_3	开关3	USB Switch 1				
		3	开关3 switch_3	on	dp_switch_3_on	开启	ON				Consult
				off	dp_switch_3_off	关闭	OFF				

According to the settings of the panel icon, make modifications as follows:

Before	After
Switch 3	USB Switch 1
Switch 4	USB Switch 2
Switch 3 Count Down	USB Switch 1 Count Down
Switch 4 Count Down	USB Switch 2 Count Down

After the modification is completed and saved, the App panel is shown as below:



c) In the App Interface, you can edit the field texts other than the data points.

⇔ Back	Multi-language Management					
	() Select multiple language The selected language will be the o conseconding language. English w Currently, you have selected: Onnese Traditional Onnes Russian	cone in which the text will be edited a     di be selected by default if this field     te English Spanish	nd displayed. The effect of this selec is blank. Pranch Arabic Jupanese	cton on App and depends on whether # a German Italian	ere is the test configured in the Kdootly language >	
	Product Information	APP Interface Net	twork Connections Guides	Alarm Text Firmware	Upgrade Text	
	App interface information			Content modified. Save to make	t vald Save Cancel	
	Key value of language package	Chinese	Traditional Chinese	English	Spanish	
	cancel	RUH	取消	Let me think		
	month_4	四月	四月	Apr.		
	month_3	三月	三月	Mar.		
	defaultSocketName	播座	智能雙插座	Socket		
	month_6	六月	六月	Jun.		
	month_10	+	+8	Oct.		
	current_ele	当前电流 (mA)	電流 (mA)	Current Ele (mA)		
	manth_5	五月	五月	May.		
	month_11	+	十一月	Nov.		

Make the following modifications.

Before	After
Cancel	Let me think
Rename	Take a nickname

The effect of the panel is shown as below:



# 2 .Panel configuration for MCU products — Take Wi-Fi air purifier as an example

## Common categories: small household appliances, kitchen appliances, sensors

Because of the MCU products have editable data points, you can add or delete product functions on the public panels which support custom.

For the guide of defining data point type, see: https://docs.tuya.com/en/iot/con figure-in-platform/function-definition/custom-functions

Note:

- Because the Tuya Public Panel is one-to-one correspondence with the default standard data points, the lack of some required standard data points may cause the panel fails to load; some standard data points may cause the incomplete functions of the panel.
- The cumulative addition of more than 25 standard functions points and custom function points on some devices may affect the stability of the device. Please operate with caution. Support adding up to 40 function points (excluding the cloud functions).

## 2.1 Functional Requirements of Products

- 1. Show indoor temperature and humidity, TVOC and formaldehyde (HCHO) concentration on the panel.
- 2. Add a pendulum switch to the panel.
- 3. The font color of indoor PM2.5 concentration number changes according to the concentration value (0-50 is green; 50-100 is yellow; more than 100 is red).
- 4. Display the weather icons rather than simple text for outdoor weather information.
- 5. Remove the display of indoor PM2.5 concentration curve.

## 2.2 Display of Standard Panel



#### 2.3 Configuration Steps

#### 2.3.1 Set data points.

a) Check the standard data points in the following figure according to product requirements:

E Site Map	Function Definition	App Ul Design Hardware Debug Advanced Features Mass Production	
		Select common function	
-		rou can siin add cusionn runciions aner adding common runciions	
		Select all	
a smart		Switch PM2.5 Mode Speed	
iegory: Air Puritier I: eOincivinix1zuwitiks		Filter Usage     Anian     Child lock     G     Light	
t Product Information		UV Disinfection         Image: Humidify         Image: Hum	
		Indoor Temp     Indoor Humidity     TVOC	
		eCO2     Filter Left Days     O     Total Runtime	
		Countdown Cult Time Total PM	o
		Air Quality Fault Alarm	400

b) After determination, the details of data points are shown as follows:

E Site Map	Function Definit	on	App UI Design	Hardware	Debug Advanced Featur	res	Mass Production	
	Standard Func	tions 🛛 Set	ting			How to de	fine product features?	
1	DP ID Function oints	in p Identifier	Data type	Function type	Properties	Remark	Operate	
a smart	1 Switch	switch	Issue and report	Boolean			Edit Delete	
egory: Air Puntier : eÖlnownx1zuwtxs	2 PM2.5	pm25	Only report	Integer	Values range:0-999, Pitch1, Scale 0, Unit:undefined		Edit Delete	
Product Information	3 Mode	mode	Issue and report	Enum	Enumerated values:manual, auto, comfortable, sleep		Edit Delete	
	4 Speed	fan_speed _enum	Issue and report	Enum	Enumerated values:sleep, low, mi d, high, auto		Edit Delete	
	12 Indoor mp	Te temp_indo or	Only report	Integer	Values range:-20-50, Pitch1, Scal e0, Unit.°C		Edit Delete	
	13 Indoor midity	Hu humidity	Only report	Integer	Values range:0-100, Pitch1, Scale 0, Unit:%		Edit Delete	
	14 TVOC	tvoc	Only report	Integer	Values range:0-1000, Pitch1, Scal		Edit Delete	

c) Add the following custom data points according to product requirements.

E Site Map	Function Definition	n App UI Design	Hardware Debug	Advanced Features Mass Production	
_	Custom Functio	ans 2 Add	e0, Unit:ppm		
1	DP ID Function oints	<sup>1 p</sup> Identifier Data type	Function type Properties	Remark Operate	
a smart egory: Air Purifier : e0incoams/12 iwfxs	101 ch2o	ch2o Only report	Values range:0-999 Integer 0, Unit:ppm	, Ptch1, Scale Edit Delete	
it Product Information	102 pendulu	im pendulum Issue and r	sport Boolean	Edit Delete	
	Cloud Function	s 🕜			
	Function	Identifier Function	descriptions	Operate	
	Fixed Time	timer Tuya Clo s	ud's timer function allows you to set on/off time, t	imer cycling, and other function	
	Jumping page	jump_url pages	for the web page un jumping function; can jump t	to mail, official website, or other	

## d) Choose a public Air Purifier template.

Dashboard > Product > Smart Product; tuya sr	Service Purchase Data Operation Document Cost Service Market	Support 🛛 😧 😢
Ξ Site Map	Contraction     Contracti	
Laga snert Category: Ar Purifer PD: Ofnown:Czuwtes Edit Product Information	<complex-block>         Al       Yeat dempta       Outomentation         Al       Yeat dempta       Outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentation       Image: All outomentation       Image: All outomentation         Image: All outomentat</complex-block>	<u>ଜୁ</u> 400 ଜଣ
	Previous     Next     O2019 Tuya hc. Time zone: GMT+8 + language: English +     Onckle Preferences	(c) Consult

## 2.3.2 Set multilingual text (Clean up App cache or re-scan the code if the modification is ineffective)

Supplement the multilingual texts as follows:

Numbe	Function er point	Attribute value	Language package key value	Chinese (Simplified)	English
14	TVOC	-	dp_tvoc	TVOC	TVOC
	tvoc	unit	dp_tvoc_unit		
101	甲醛	-	dp_ch2o	甲醛	CH2O
	ch2o	unit	dp_ch2o_unit		
102	摆叶	-	dp_pendulum	摆叶	Pendulur
	pendulum	on	dp_pendulum_on	开	On
		off	dp_pendulum_off	关	Off

#### 2.3.3 Change functions by submitting work orders

The font color for PM2.5 number, weather icon, and indoor PM2.5 concentration curve can only be modified by Tuya by configuring the background code. To modify these functions, please submit a work order to apply for changes.

#### a) Where to submit a work order?

Product App Service Purchase Data Operation Document	Cost Service Market
Bulletin: Notice: Impact of IOS 13 on Network Connection Experience	2019-09-02   More
Join the Interconnected World of Al-	-loT with "Powered by Tuya"
Easy Access to Get Your Smart Product	Apr Service aske, operate, maritain, and
Create Express Develop	add value is your age.
Smart Products All products	Did You Have Any Problem During
tuva smart Developing	··· Development?
River and a second seco	Submit the following questions here. Tuya's professional service teams will answer your questions soon.
Product ID: 9lifgc94qtd8btpk Created: 2019-10-14	
Last updated: 2019-10-14	Question
tuya smart Developing	

b) After the change, the panel style is shown as follows:



## 2.4 Precautions

- 1. Do not choose Char type or RAW type for custom functions, otherwise the public air purifier panel may crash.
- 2. In the Custom Function section, the Data report type DP will be displayed in the Home interface, and the Control and report type DP will be displayed in the Settings interface.
- 3. The Fault type function does not display.

## **3** Public Panel Configurable Items

The graffiti public panel supports a wide range of custom function configurations, but currently the following features need to be contacted by the graffiti staff for configuration. If you need it, you can submit a work order and attach a PID to request a configuration for the graffiti. For the work order submission method, please refer to the second part of this document - configuration steps - the third step.

2.3	tegory	Configurable item	Tips	
		Whether to support power statistics		
		Whether to support group countdown	The dp point is incremented by the number of the standard do identifier suffix, and the	
	Multi-way Socket	Whether to support group power statistics		
		loon on the right side of the head bar (showing a		
		horizontal bar or a pencil)		
		Whether to flip the socket order		
		Socket layout: (default vertical)		
Electrical		Whether to display electricity statistics		
Crossing	Socket	Whether to display the group countdown	nanel automatically recognizes and increase	
Lingineering		Whether to display group battery statistics	the number of switches and sockets	
		Whether to display electricity statistics		
		Whether to display the group countdown		
	Switch	Whether to display group battery statistics Whether to hide the full open function (default display)		
		Whether to hide the full off function (default display)		
1	White Light menu bar	Mode and brightness DP are determined together	Required DP: 20, 21, 25, 28 (switch, mode,	
	Color menu bar	Mode and color DP are decided together		
Linkting	Scene menu bar	Mode and situation DP decide together		
Lighting N	Music Lights menu	Mode and music light DP jointly decided	scene, adjustment)	
	bar			
	countdown	Determined by the countdown DP point		
2	timing	Cloud timing decision		
	Air purifier	Whether the indoor PM2.5 curve is displayed	"Custom function cannot select character or raw type; Selecting only the reported numeric value in the custom function will be displayed directly on the main interface. Selecting Boolean and Enumeration in the custom function will be displayed directly in the settings."	
		Indoor PM2.5 numeric font color changes according to numerical values		
Small		Outdoor weather display copy or icon		
Home Appliance	Fan	Turn on the sub-control renaming configuration of the lights on the panel	"If you do not configure the sub-control rename, voice will not be able to achieve sub-control; Required DP: 1, 3 (fan switch, wind speed)"	
	Electric teapot	Add new configurable items and values to the timing selection list	Required DP: work switch, working status, work type	
		The DP identifier adds a function point in the form	at of cook mode XXX. The DP will appear on	
1	Kitchen appliance	the main panel, and other DPs ar	opear in the setup interface.	
, <b>I</b> ,		Whether to support offline reminders (default	and a state was seen a state as	
		support of the remainders (declar		
		support support) Device sleep time (copywriting display, default 12 hours)		
		Support) Device sleep time (copywriting display, default 12 hours) Whether to support historical data export function (not supported by default)		
		Support) Device sleep time (copywriting display, default 12 hours) Whether to support historical data export function (not supported by default) Shield group countdown		
		Shield battery status		
ŝ	ensor	Shield battery status The device is canceled after the default is 25. Therefore, you need to perform additional configuration for products that need to receive the report "none" to cancel the alarm.	Configurable cloud does not do duplicate	
S	ensor	Support) Device sleep time (copywriting display, default 12 hours) Whether to support binnicial data export function (not supported by default) Shield group countdown Shield battery status The device is canceled after the default is 25. Therefore, you need to perform additional configuration for products that need to receive the report "none" to cancel the alarm. Convert existing bottom history interactions into historical and alarm management modes	Configurable cloud does not do duplicate data filtering (default filtering duplicate data)	
8	ensor	Shield battery status Shield battery status The device is canceled after the default is 25. Therefore, you need to perform additional configuration for products that need to receive the report "none" to cancel the alarm. Convert existing bottom history interactions into historical and alarm management modes Whether to hide the APP home alarm prompt	Configurable cloud does not do duplicate data filtering (default filtering duplicate data)	
S	ensor	Support) Device sleep time (copywriting display, default 12 hours) Whether to support binnicial data export function (not supported by default) Shield group countdown Shield battery status The device is canceled after the default is 25. Therefore, you need to perform additional configuration for products that need to receive the report "none" to cancel the alarm. Convert existing bottom history interactions into historical and alarm management modes Whether to hide the APP home alarm prompt How many millseconds to configure the trigger class alarm delay becomes an unalarmed state, the default is 2000ms. Unit (ms)	Configurable cloud does not do duplicate data filtering (default filtering duplicate data)	
5	ensor	Support) Device sleep time (copywriting display, default 12 hours) Whether to support binnicial data export function (not supported by default) Shield group countdown Shield battery status The device is canceled after the default is 25. Therefore, you need to perform additional configuration for products that need to receive the report "none" to cancel the alarm. Convert existing bottom history interactions into historical and alarm management modes Whether to hide the APP home alarm prompt How many millseconds to configure the trigger class alarm delay becomes an unalarmed state, the default is 2000ms. Unit (ms) Flip the enumeration battery range (do display distinction)	Configurable cloud does not do duplicate data filtering (default filtering duplicate data	
S	ensor	Support) Device sleep time (copywriting display, default 12 hours) Whether to support binnical data export function (not supported by default) Shield group countdown Shield battery status The device is canceled after the default is 25. Therefore, you need to perform additional configuration for products that need to receive the report "none" to cancel the alarm. Convert existing bottom history interactions into historical and alarm management modes Whether to hide the APP home alarm prompt How many milliseconds to configure the trigger class alarm delay becomes an unalarmed state, the default is 2000ms. Unit (ms) Flip the enumeration battery range (do display distinction) Whether to display a low battery reminder	Configurable cloud does not do duplicate data filtering (default filtering duplicate data	