tuya

Colorful-X7
WIFI /BLUE /ZIGBEE Controller

CE RoHS

Colorful-X7-WIFI

Colorful-X7-BLUE

Colorful-X7-ZIGBEE

The controller is compatible with 49 chips: TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, SK6813, UCS2903, UCS2909, UCS2912,WS2811, WS2812, WS2813, WS2815, TM1829,TLS3001, TLS3002, GW6205, MBI6120, TM1814B(RGBW), SK6812(RGBW), WS2813 (RGBW), WS2814(RGBW), UCS8904B(RGBW), LPD6803, LPD1101,D705, UCS6909, UCS6912, LPD8803, LPD8806, WS2801, WS2803, P9813, SK9822, TM1914A, GS8206, GS8208, UCS2904, SM16804, SM16825, SM16714(RGBW), UCS2603, UCS5603, SM16714D, SM16703P, UCS7604(RGBW), UCS7804(RGBW).

You can control the number of pixels through the Tuya/Smart Life APP, voice control, music rhythm, select various dynamic or custom shortcut color modes, set the number of control pixels, etc.

Select various dynamic change modes, adjust the change speed and brightness, set the number of control pixels, set the chip type and R/G/B color order, etc.
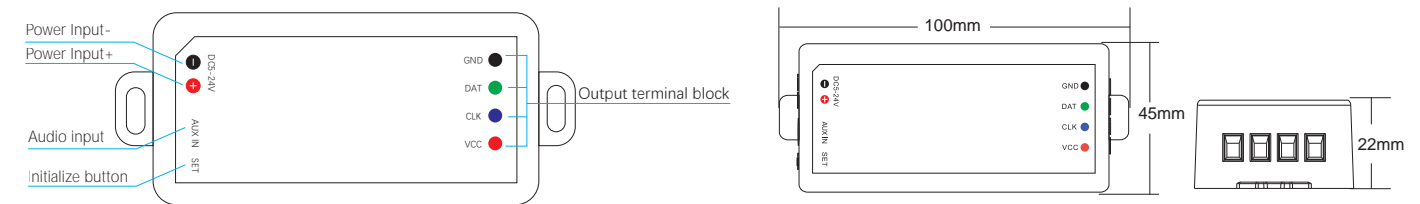
peculiarity

- RGB/RGBW Colorful Light with Controller, SPI Signal Output, Tuya Smart APP Cloud Control.
- Compatible with RGB or RGBW LED strips with 49 chips, the chip type and R/G/B color order can be set through the mobile app.
- 180 dynamic change modes can be set through the mobile app, including horse running, chasing, flowing water, meteor shower and gradient drift.
- Voice control,Support Amazon Alexa、Google Assistant、Tmall Genie、Xiaodu voice assistant。
- Built-in massive modes, 180 dynamic, 22 light bars, and 30 light screen modes.
- Support OTA online upgrade (if there is a new IC with an update iteration, our product will also be updated and iterated) The more you use it, the better it will use

Device parameters

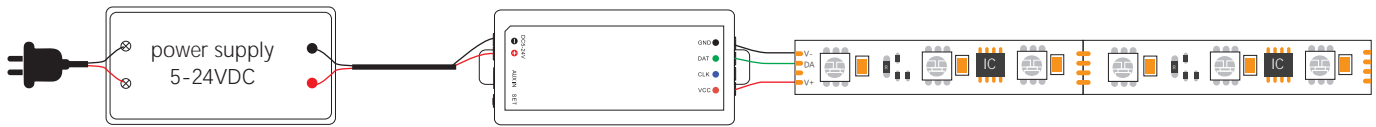|				
Input voltage	5-24VDC		Input current	8A
Enter the signal	WIFI/BLUETOOTH/ZIGBEE		Scenario mode	There are 180 kinds of dynamics, 22 kinds of light bars, and 30 kinds of light screens
Pixels	1024			
Size	L100XW45XH22mm			
Bad environment			Maximum temperature of the case	Tc:+65℃
IP rating	IP20		Operating temperature	Ta:-20℃~+60℃
wrap				
Package size	L105XW7XH28mm		G.W./KG	0.06KG
Box size（100PCS）	L38XW30XH24cm		G.W./KG	7KG

Equipment mechanism and installation
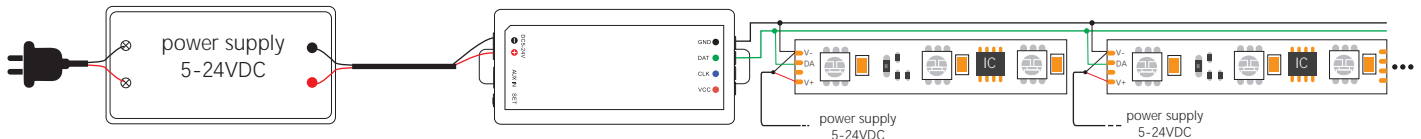
Wiring diagram of the device

Connect the strip light
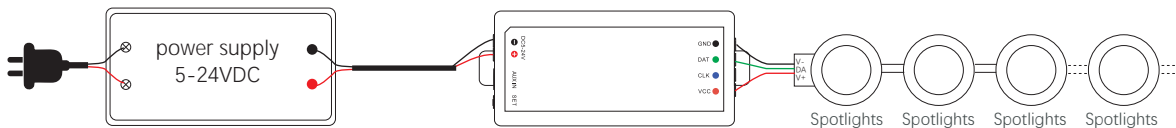
AC100-240V

Connect multiple strips of light (additional power supply is required if the lamp load exceeds 8A)
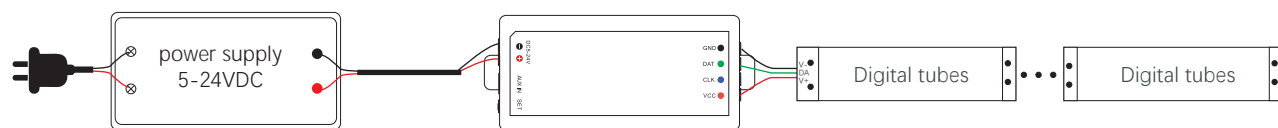
AC100-240V

Connecting Spotlights (TM1803)

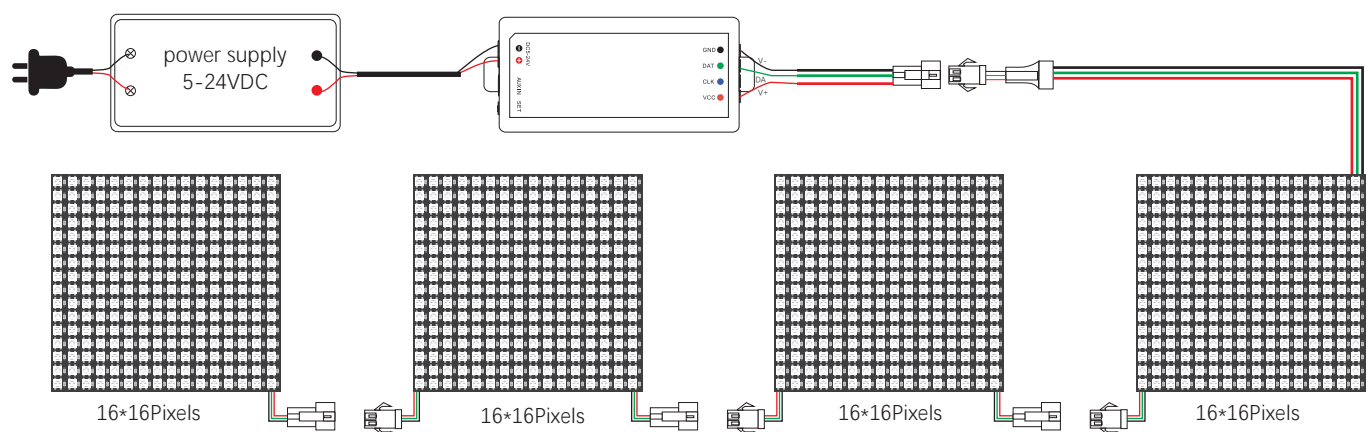AC100-240V

Connecting Lamp (TM1803)

AC100-240V

Connect the light screen

AC100-240V

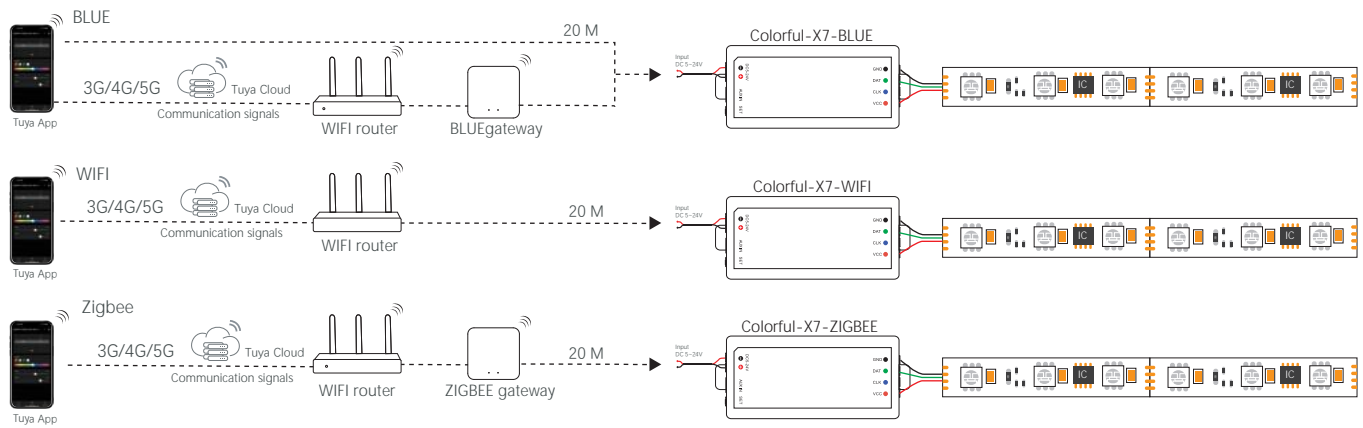16*16=256*4=1024 Pixels

16*16Pixels   16*16Pixels   16*16Pixels   16*16Pixels

Note

1. If the LED strip is a single-wire control mode, the DATA and CLK signal line output of the controller are not the same, and 1 controller connected to DAT (4-wire needs to be connected to CLK) can be connected to 6 LED strips.

2. When the load of the LED strip exceeds 8A, the LED strip needs to be powered by other power supplies (the LED strip and the power supply need to be on the same ground), and only DATA/CLK and GND lines are connected between the controller and the LED strip.

3. The output power of the constant voltage power supply is at least 1.2 times of the output load (light strip), otherwise the full power output of the load is easy to cause the light to flicker or shake automatically.

System wiring diagram

Tuya smart download & APP network connection

Search for 'Tuya Smart' in the app store or scan the QR code.
New users need to register to log in to the APP.
Please download the corresponding Tuya/Smart Life APP according to your region.

Press and hold the pairing button for 5 seconds to enter the network pairing mode, when the light strip is 2811, the light strip will enter the breathing state.
Non-2811 light strip, there will be no breathing state, long press can directly search for the distribution network in the APP.

After the controller is installed in the APP, we can easily control the LED lighting with the APP.

Scan the QR code to download the APP

Smart Life APP

Tuya Smart APP

Tuya smart APP interface

Settings interface

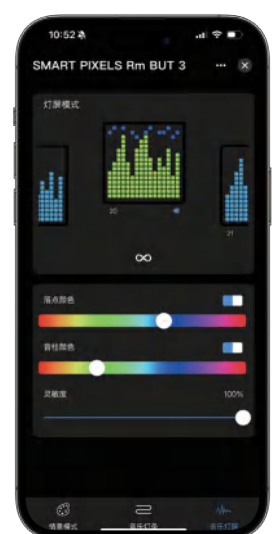Set the chip type through this interfaceand R/G/B color order.

Dynamic mode

180 dynamic and custom quick colors
Adjust the speed of change and brightness

Light bar mode

22 strip light modes
Adjust the change brightness, and sensitivity

Light screen mode

30 light screen modes
You can adjust the color of the drop point and the color of the sound column and sensitivity

Using the Tuya/Smart Life APP, you can select various dynamic change modes, adjust the change speed and brightness, set the number of control pixels, set the chip type and R/G/B color order, etc.
Voice control, music groove, choose a variety of dynamic or custom shortcut color modes, set the number of control pixels, etc.

Installation precautions

1. When installing, the length of the signal line (DATA/CLK) needs to be <10 meters to avoid signal interference caused by too long line.
2. When installing, the signal line (DATA. CLK) needs to be separated from the strong current (100~240VAC) line, with a distance of > 15cm, to avoid the magnetic field generated by the strong current from interfering with the transmission of the signal.
3. The LED strip is always on and uncontrolled, it may be that the signal line (DATA/CLK) is open or the chip of the LED strip is damaged, it is recommended to replace the signal cable or LED strip.
4. When installing the device, please turn off the power to ensure safety.
5. Do not place the product in highly flammable or explosive materials.
6. Please check whether the input voltage is consistent when using this device.
7. Please do not install and use such products in lightning and thunder, strong magnetic field or high voltage occasions.
8. There are electromagnetic waves nearby, which will seriously affect the control distance.