

LEDSTRIP

Catalogue for Pixel LED Strip

Breakpoint Transmission
DMX512
SPI



SPI

Simple application, only need a single data cable can complete the transmission of data;

Breakpoint Transmission

With dual data cable, the main data cable can be automatically switched to the standby data cable when the fault, enhance the reliability of data transmission;



DMX512

Compatible with international standard protocol DMX512 (1990).
Adopting signal differential transmission mode, to ensure stronger anti-interference ability and longer transmission distance.

Product List

Model	Voltage (V)	Power (W/M)	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Unit length (mm)	IC Model	Page
TY-ST50Q60V5W10-Crgb-SK6812	DC5V	10	267.9	27.0	60	16.66	SK6812	01
TY-ST50Q60V12W10-Crgbw-SK6812	DC12V	12	630	52	20	50	SK6812	02
TY-ST50Q60V12W08-Crgw-MT1809	DC12V	9	250.2	27.8	60	16.66	MT1809	03
TY-ST28Q120V24W10-Cx-UCS1903H	DC24V	14	1188	84.8	10	100	UCS1903H (WS2811/SM16703)	04
TY-ST28Q120V24W08-Crgb-WS2811	DC24V	12	388.6	33.1	10	100	WS2811	05
TY-ST50Q60V12W10-Crgb-UCS1903H	DC12V	14	514.4	37.0	20	50	UCS1903H (WS2811/SM16703)	06
TY-ST50Q60V24W10-Crgb-UCS1903H	DC24V	14	523.7	37.9	10	100	UCS1903H (WS2811/SM16703)	07
TY-ST50Q60V24W10-Crgbw-UCS2904B	DC24V	18	758.3	41.7	10	100	UCS2904B	08
TY-ST50Q30V12W10-Crgb-WS2818	DC12V	7.2	281	39	10	100	WS2818 (UCS2603/GS8206)	09
TY-ST50Q60V24W10-Crgb-WS2818	DC24V	14	562.1	40.8	10	100	WS2818 (UCS2603/GS8206)	10
TY-ST50Q60V12W10-Crgb-WS2818	DC12V	14.4	562.1	19.2	20	50	WS2818 (UCS2603/GS8206)	11
TY-ST50Q60V24W12-Crgb-UCS512C4	DC24V	14.4	379.5	39.2	10	100	UCS512C4/ SM18512PK	12
TY-ST50Q60V24W12-Crgbw-UCS512C4	DC24V	18.5	718.1	42.5	10	100	UCS512C4/ SM18512PK	13

Note: If there are multiple IC model options for a product in the selection table, it only means that the PCB can be compatible with the listed IC models, but it does not mean that the control protocols of the listed IC are the same. When the customer chooses the controller by himself, please check whether the controller supports the IC of the specified light strip.



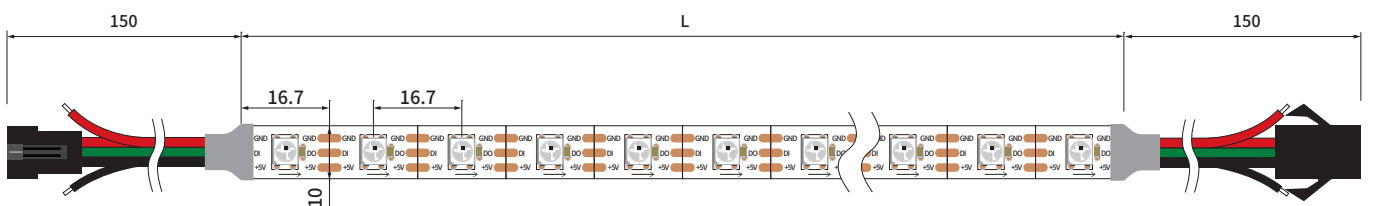
TY-ST50Q60V5W10-Crgb-SK6812

Product Features

- Single-flow, gradient, chase, scan and other full-color effects.
- Splicing to achieve text movement and video animation and other dynamic effects.
- Can be bend and cut, can achieve a certain curvature and length of the modeling screen.
- LED 1 IC, individual controlled, can be made into high-density high-definition display.



Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	UnitLength (mm)	IC Model
SPI(Built-in-IC)	5050RGB	DC5V	3.5	R	59.23	16.8	10	60	60	16.66	SK6812
			3.5	G	177.5	51.4					
			3.5	B	44.8	12.9					
			10	RGB	267.9	27.0					



TY-ST50Q60V12W10-Crgbw-SK6812

Product Features

- Single-flow, gradient, chase, scan and other full-color effects.
- Splicing to achieve text movement and video animation and other dynamic effects.
- Can be bend and cut, can achieve a certain curvature and length of the modeling screen.



Voltage
12V DC

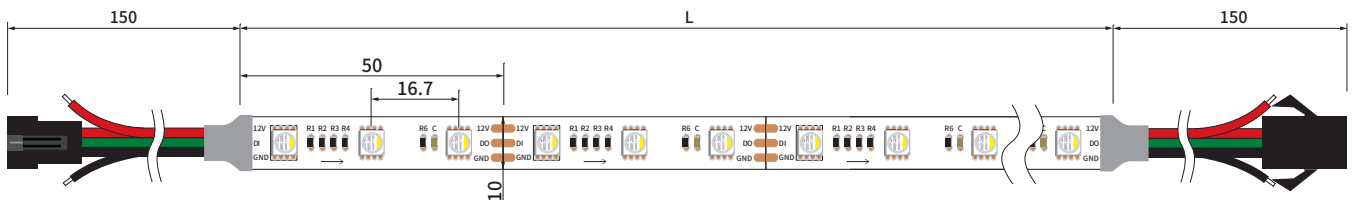


SMD 5050
IP 20



Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	UnitLength (mm)	IC Model
			2.5	R	46	18.4					
			2.5	G	167	66.8					
SPI (Built-in IC)	5050RGBW	DC12V	2.5	B	46	18.4	10	60	20	50	SK6812
			5	W(3000K)	376	75.2					
			12	RGBW	630	52					



TY-ST50Q60V12W08-Crgw-MT1809

Product Features

- Single-flow, gradient, chase, scan and other full-color effects.
- Splicing to achieve text movement and video animation and other dynamic effects.
- Can be bend and cut, can achieve a certain curvature and length of the modeling screen.
- LED 1 IC, individual controlled, can be made into high-density high-definition display.



Voltage
12v DC

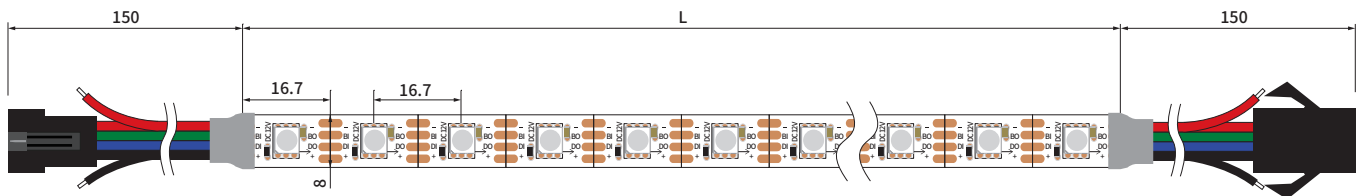


SMD 5050
IP 20



Warranty
3 Years

Dimension structure



Parameter

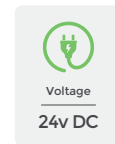
Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
SPI (Built-in IC) (Breakpoint Transmission)	5050RGB	DC12V	9	R	44.42	4.9	8	60	60	16.66	MT1809
			9	G	163.8	18.2					
			9	B	39.8	4.4					
			9	RGB	250.2	27.8					



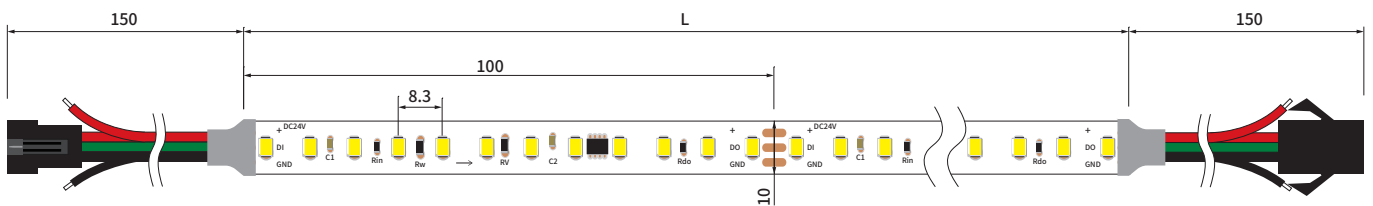
TY-ST28Q120V24W10-Cx-UCS1903H

Product Features

- Adopt top quality and super bright LED, low power, less heat and longer lifespan.
- Low Voltage, High safety.
- Compatible with most of pixel controllers.



Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
SPI	SMD2835 Single White	DC24V	14	2700K	996	71	10	120	10	100	UCS1903H (WS2811/SM16703)
			14	3000K	1036	74					
			14	4000K	1200	85.7					
			14	6500K	1188	84.8					



TY-ST28Q120V24W08-Crgb-WS2811

Product Features

- Adopt top quality and super bright LED, low power, less heat and longer lifespan.
- Low Voltage, High safety.
- Compatible with most of pixel controllers.



Voltage
24v DC

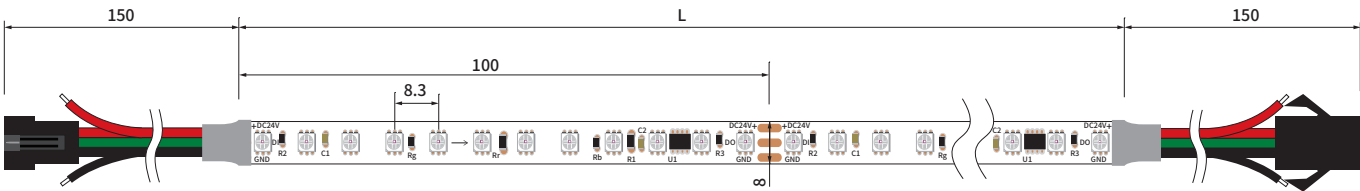


SMD 5050
IP 20



Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
SPI	2835RGB	DC24V	4.8	R	83.57	17.6	8	120	10	100	WS2811
			4.8	G	281	58.9					
			4.8	B	49.59	10.5					
			12	RGB	388.6	29.9					



TY-ST50Q60V12W10-Crgb-UCS1903H

Product Features

- Adopt top quality and super bright LED, low power, less heat and longer lifespan.
- Low Voltage, High safety.
- Compatible with most of pixel controllers.



Voltage
12v DC

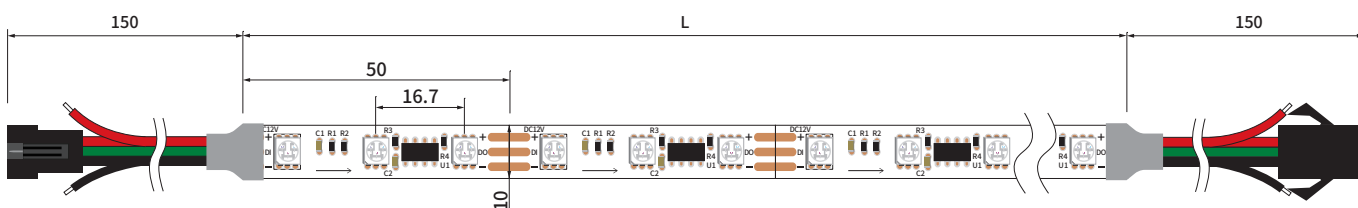


SMD 5050
IP 20



Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
SPI	5050RGB	DC12V	6	R	94.2	15.7	10	60	20	50	UCS1903H/ (WS2811/ SM16703)
			6	G	363.7	60.7					
			6	B	74.82	12.4					
			14	RGB	514.4	37.0					



TY-ST50Q60V24W10-Crgb-UCS1903H

Product Features

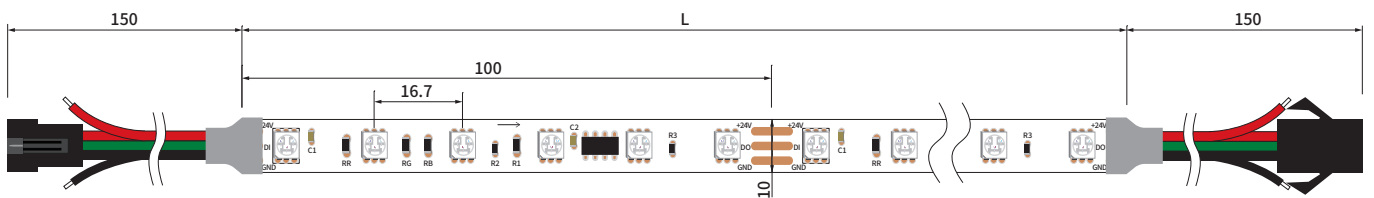
- Adopt top quality and super bright LED, low power, less heat and longer lifespan.
- Low Voltage, High safety.
- Compatible with most of pixel controllers.


 Voltage
24v DC


 SMD 5050
IP 20


 Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
SPI	5050RGB	DC24V	6	R	91.66	15.6	10	60	10	100	UCS1903H/ (WS2811/ SM16703)
			6	G	365.4	62.3					
			6	B	74.12	12.5					
			14	RGB	523.7	37.9					



TY-ST50Q60V24W10-Crgbw-UCS2904B

Product Features

- Adopt top quality and super bright LED, low power, less heat and longer lifespan.
- Low Voltage, High safety.
- Compatible with most of pixel controllers.



Voltage
24v DC

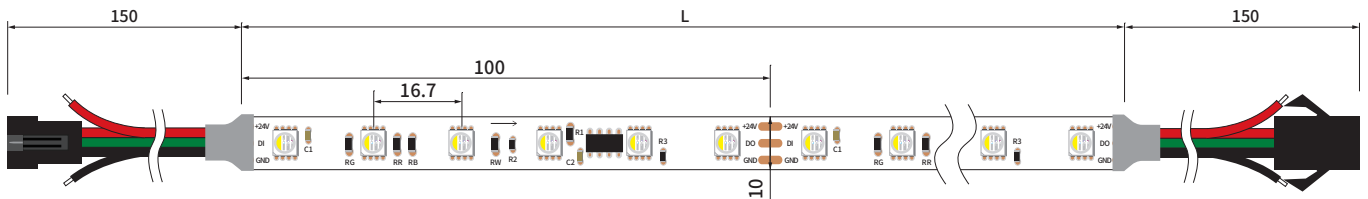


SMD 5050
IP 20



Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
SPI	5050RGBW	DC24V	6	R	100.9	17.6	10	60	10	100	UCS2904B
			6	G	259.2	45.4					
			6	B	77.12	13.5					
			6	W(4000K)	341.4	59.9					
			18	RGB	758.3	41.7					



TY-ST50Q30V12W10-Crgb-WS2818

Product Features

- Adopt top quality and super bright LED, low power, less heat and longer lifespan.
- Low Voltage, High safety.
- Two signals Breakpoint resume to ensure higher stability.
- Signal can be transported when one chip damaged.
- Compatible with most of pixel controllers.



Voltage
12v DC

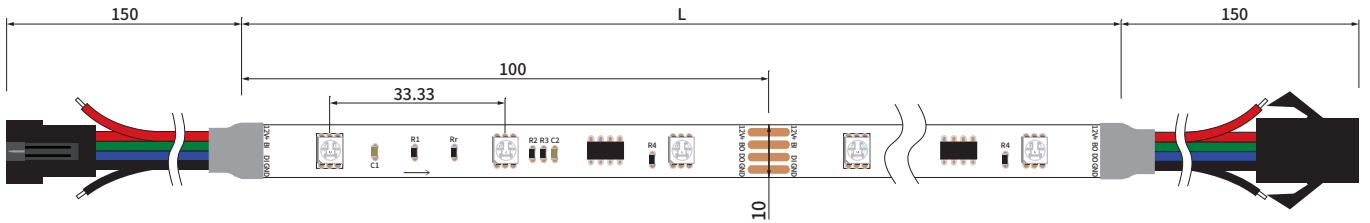


SMD 5050
IP 20



Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
Breakpoint Transmission	5050RGB	DC12V	2.8	R	47.7	17	10	30	10	100	WS2818 (UCS2603/GS8206)
			2.8	G	197	70					
			2.8	B	37	13					
			7.2	RGB	281	39					



TY-ST50Q60V24W10-Crgb-WS2818

Product Features

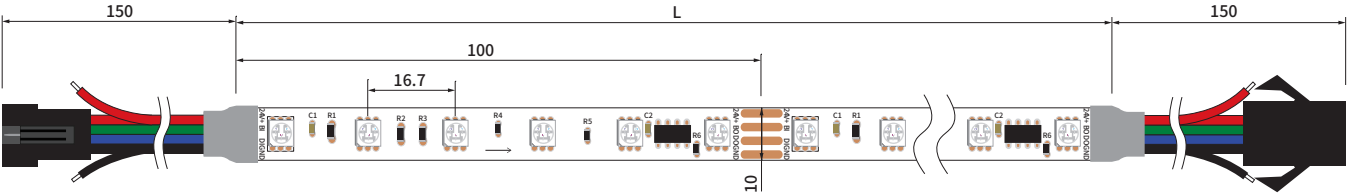
- Adopt top quality and super bright LED, low power, less heat and longer lifespan.
- Low Voltage, High safety.
- Two signals Breakpoint resume to ensure higher stability.
- Signal can be transported when one chip damaged.
- Compatible with most of pixel controllers.


 Voltage
24v DC


 SMD 5050
IP 20

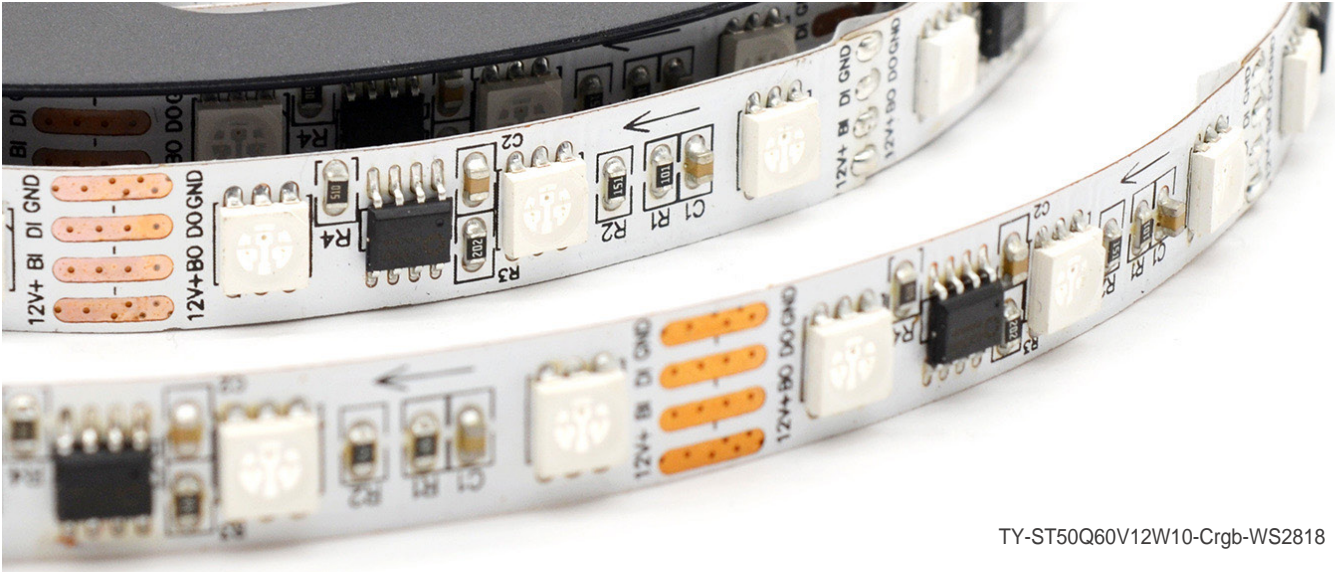

 Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
Breakpoint Transmission	5050RGB	DC24V	5.6	R	95.58	17.1	10	60	10	100	WS2818/ (UCS2603/ GS8206)
			5.6	G	394.8	70.5					
			5.6	B	75.02	13.4					
			14	RGB	562.1	40.8					



TY-ST50Q60V12W10-Crgb-WS2818

Product Features

- Adopt top quality and super bright LED, low power, less heat and longer lifespan.
- Low Voltage, High safety.
- Two signals Breakpoint resume to ensure higher stability.
- Signal can be transported when one chip damaged.
- Compatible with most of pixel controllers.



Voltage
12v DC

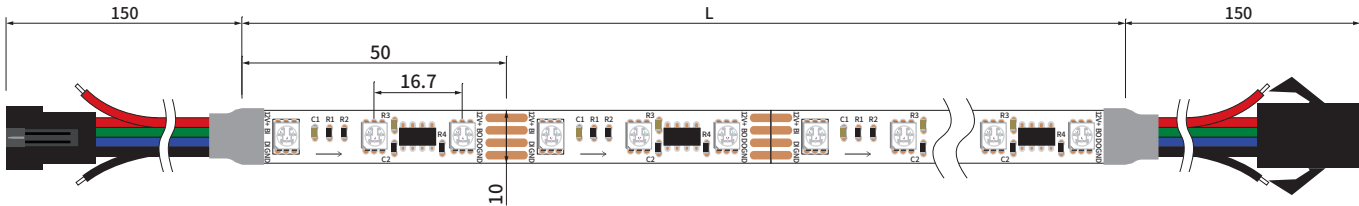


SMD 5050
IP 20



Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
Breakpoint Transmission	5050RGB	DC12V	5.6	R	95	16.9	10	60	20	50	WS2818 (UCS2603/ GS8206)
			5.6	G	392	70					
			5.6	B	70	12.5					
			14.4	RGB	562.1	40.2					



TY-ST50Q60V24W12-Crgb-UCS512C4

Product Features

- Compatible with DMX512(1990) protocol.
- Adopting RS485 signal trunk and signal differential transmission mode to ensure stronger ability of anti-interference and longer transmission distance.
- Automatically addressing with editor.



Voltage
24v DC

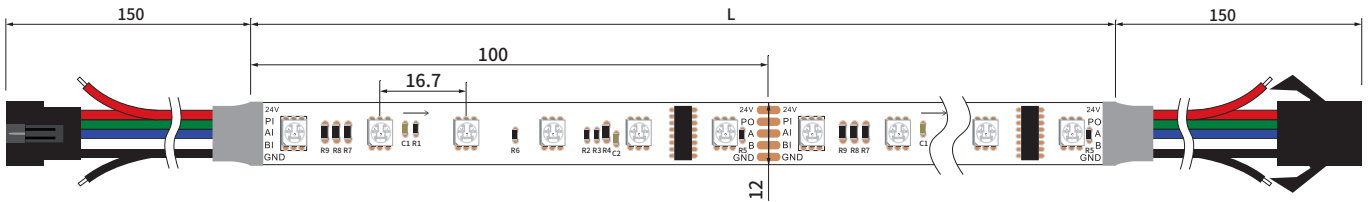


SMD 5050
IP 20



Warranty
3 Years

Dimension structure



Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	Unit Length (mm)	IC Model
DMX512	5050RGB	DC24V	6.5	R	88.7	13.7	12	60	10	100	UCS512C4/ SM18512PK
			6.5	G	389.3	59.9					
			6.5	B	74.7	11.5					
			14.4	RGB	563	39.2					



TY-ST50Q60V24W12-Crgbw-UCS512C4

Product Features

- Compatible with DMX512(1990) protocol.
- Adopting RS485 signal trunk and signal differential transmission mode to ensure stronger ability of anti-interference and longer transmission distance.
- Automatically addressing with editor.



Voltage
24v DC

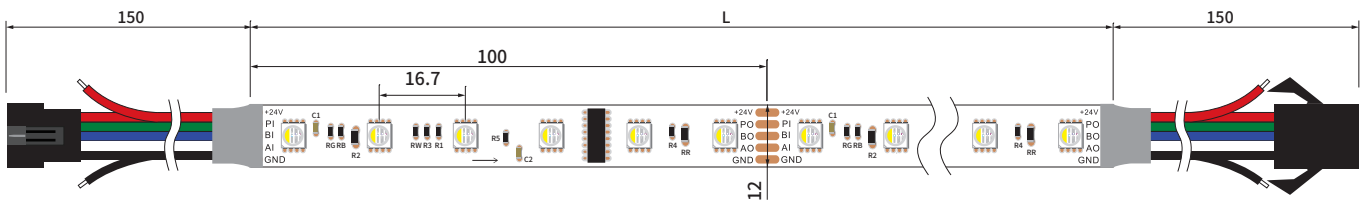


SMD 5050
IP 20



Warranty
3 Years

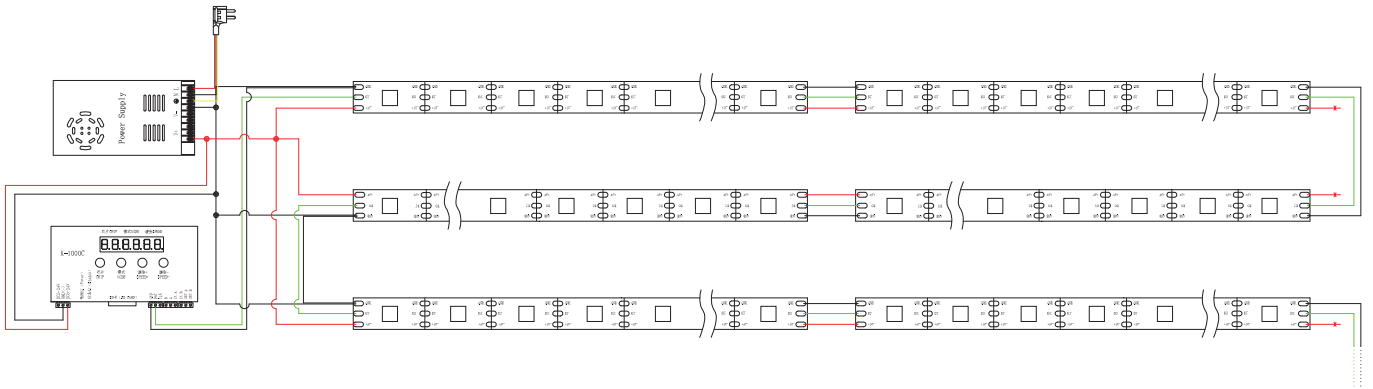
Dimension structure



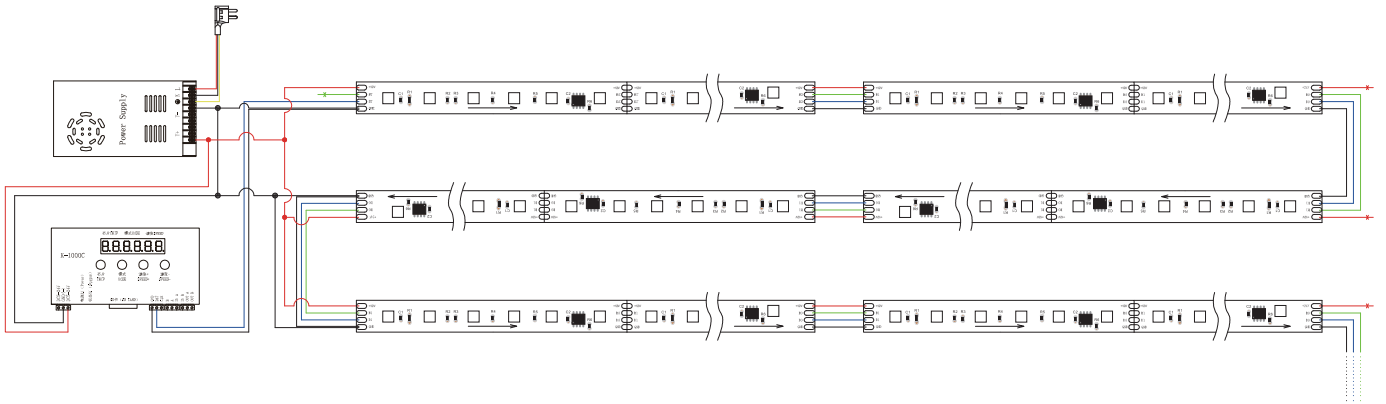
Parameter

Signal Type	SMD Type	Voltage	Power (W)	CCT/Color	Lumen (LM/M)	Efficiency (LM/W)	PCB Width (mm)	Led Qty (PCS/M)	Pixel (PCS)	UnitLength (mm)	IC Model
DMX512	5050RGBW	DC24V	6.5	R	113	17.4	12	60	10	100	UCS512C4/ SM18512PK
			6.5	G	297.7	45.9					
			6.5	B	93	14.3					
			6.5	W(4000K)	388	59.8					
			18.5	RGBW	786	42.5					

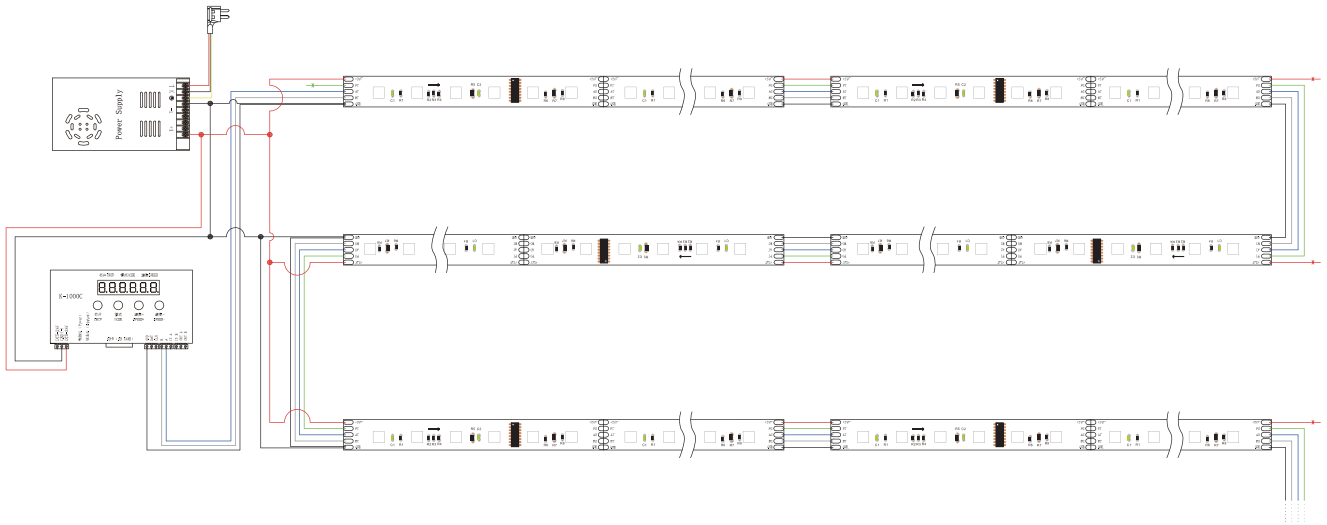
Connection diagram-SPI Signal



Connection diagram-Breakpoint Transmission

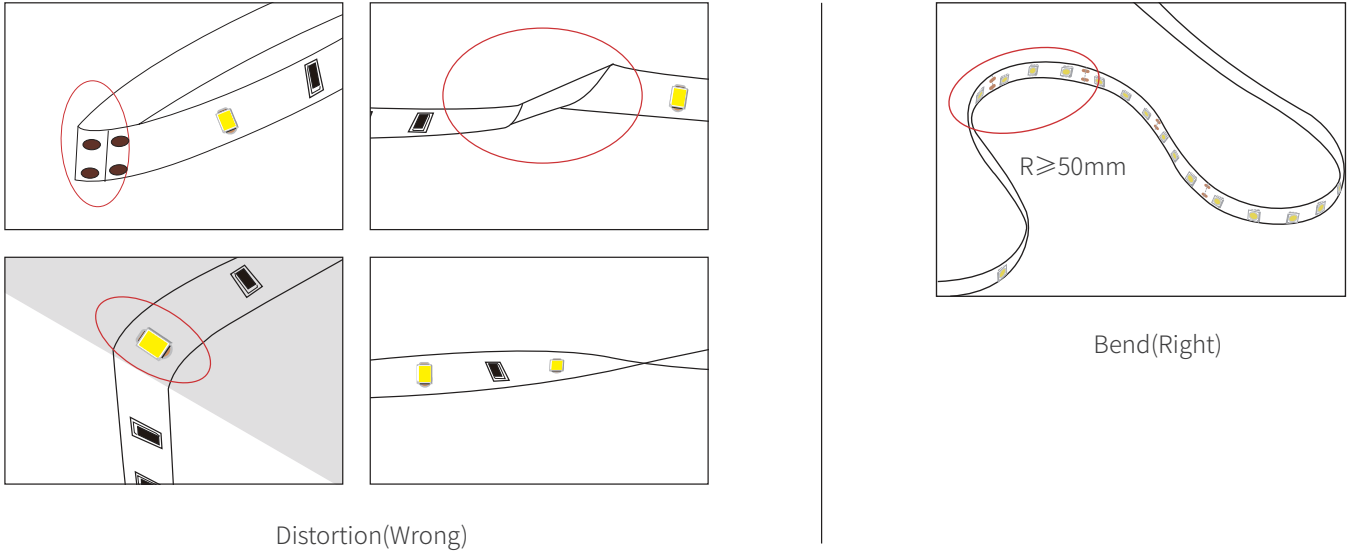




Connection diagram-DMX512



 **Cautions**

When install the led strip,please note the installation technique.The led strip can be bent,but not distorted,as shown below.



-  LED strips are low voltage products,you must use the power supply(transformer).Please don,t connect the led strip directly to the AC 110v or AC 220v,otherwise it will burn out the LED strips.
-  Clean up the installation surface,it will ensure the reliability of the adhesive,The electrical connection process must be operated by a professional person.

Package



Notes

- ※When the customer matches the control system by himself, please check whether it is compatible with the IC model of the light strip.
- ※The unused light should be sealed with the packaging bag to avoid prolonged exposure.
- ※ Please use isolated constant voltage power supply with ripple voltage less than 5%.Using other types of power supply may damage the light or cause other safety risks.
- ※ In practical application, 20% allowance should be reserved for power supply to ensure the stability of power supply.
- ※ It is recommended that professionals connect the power supply. Do not connect the power supply with live power to avoid electric shock.
- ※ Please confirm whether the voltage of the power supply is consistent with the voltage of the light; Pay attention to the positive and negative poles of the power cord, do not connect wrong, so as not to cause product damage;
- ※ When multiple power supplies are used, ensure that the positive poles of the power supply are not connected in parallel. Otherwise, the power supply system may be unstable or damaged after long-term operation.
- ※ If the actual application length exceeds the specified length, it will lead to overload, heating and uneven brightness of the light.
- ※ During installation, please do not scratch, twist, or bend the light irregularly. Otherwise, the light may be damaged beyond repair.
- ※ To ensure the life and reliability of the light, please do not over bend the light, which will damage the product itself.
- ※ To protect your eyes, please avoid staring at the glowing surface of the light for a long time.
- ※ Non-professionals are forbidden to install, disassemble and maintain the product.
- ※ Do not use any acid or alkaline adhesive to fix the light (including but not limited to glass glue, etc.)



Specialized
LED strip Manufacturer

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