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TECHNOLOGY

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DMX-SPI Signal Decoder

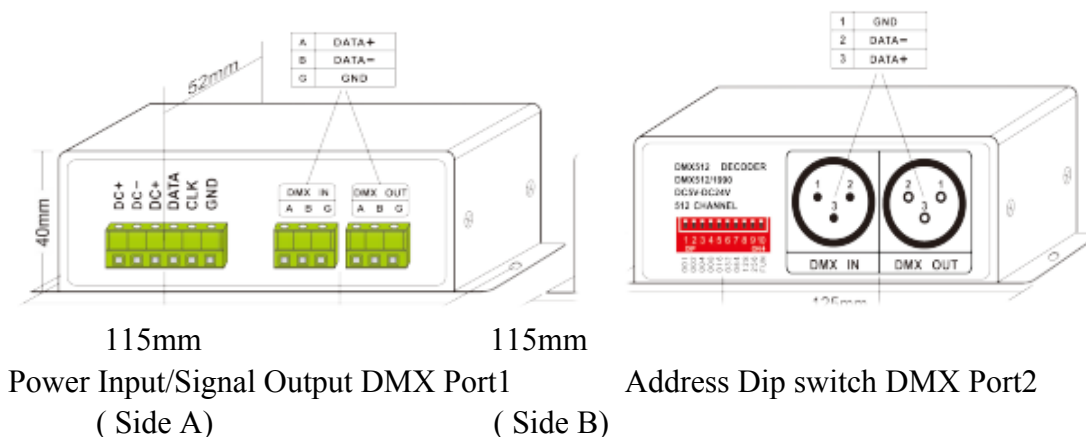


Welcome to choose our DMX decoder, DMX-SPI signal decoder works to convert DMX512 digital signal to SPI (TTL)digital signal. It can control LED lights compatible with driving IC, and control every channel of the LED lights, realize the function of 0~100% dimming or editing all sorts of change effect. DMX-SPI decoder are widely used in LED flashing word string light, LED dot light, SMD strip LED digital tubes, LED wall light, LED pixel screen, Hi-power spotlight, flood light, etc.

Product Parameter:

Input Voltage	DC5V~DC24V
Input Signal	DMX512
Output Signal	SPI(compatible with WS2801, WS2803 driving IC)
Decoding Channels	512 Channels/Unit
Output Grey Scale	256 Levels/CH (8bit/CH)
DMX512 Connector	XLR-3, Green Terminal
Product Dimension	L125×W52×H40mm
Package Size	L135×W70×H50mm
Working Temperature	-30 ~65 °C °C
Weight (G.W.)	300g

Configuration Diagram:



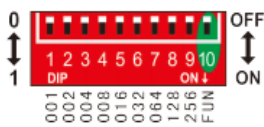


Port Definition:

NO.	Silk Screen	Function	
1	Power Supply Input Port	DC+	DC5V-24V LED
		DC-	Power Supply Input
2	Output Port Connect Lights	DC+	LED Power Supply Anode
		DATA	Data Cable
		CLK	Clock Cable
		GND	Ground Wire(DC-)

How to Set DMX Address Via DIP Switch:

FUN=OFF (the 10th) Mode dip switch=OFF DMX

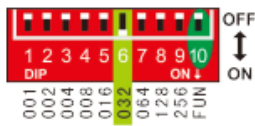


FUN=ON (the 10th) dip switch=ON Self-testing Mode

FUN=OFF (the 10th) Mode dip switch=OFF DMX

4.1 DMX Mode:

E.g.1: Set Initial Address To 32. E.g.1: Set Initial Address To 37 E.g.1: Set Initial Address To 138



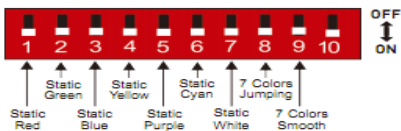
$001+004+032=37$ $002+016+032+128=178$

When Dip switch 1-9 are OFF, the default initial DMX address is 1 *

4.2 Self-testing Mode:

FUN=ON (the 10th dip switch = ON) Self-testing Mode

Dip switch	1-9=off	1=on	2=on	3=on	4=on	5=on	6=on	7=on	8=on	9=on
Self-test Function	Static Black	Static Red	Static Green	Static Blue	Static Yellow	Static Purple	Static Cyan	Static White	7 Colors Jumping	7 colors Smooth



For changing effects (Dip Switch 8 9=on): /

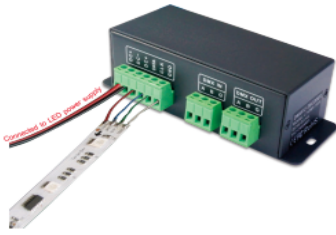
DIP switch 1-7 is used to realize 7 speed levels. (7=on, the fastest level)

[Attn] When several dip switches are on, subjected to the highest switch value.

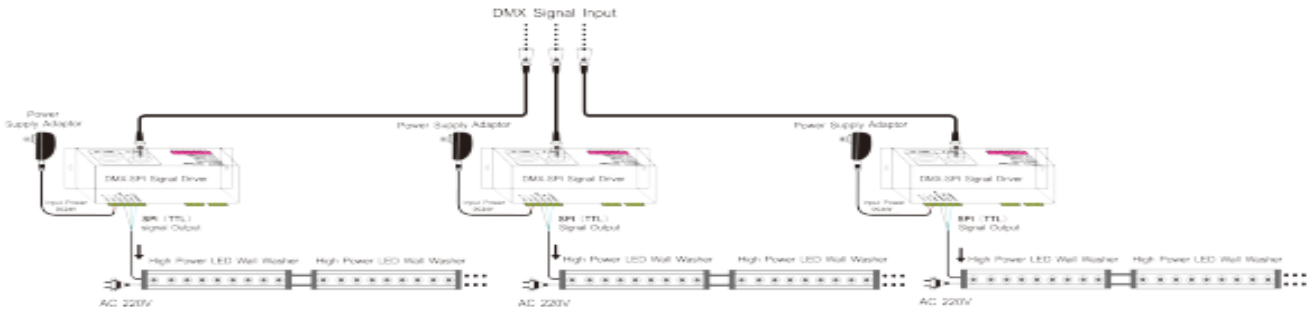
As the figure above shows, the effect will be 7 colors smooth at 7 speed level.

5. Configuration Diagram:

1) LED Digital Strip Physical Conjunction Diagram.

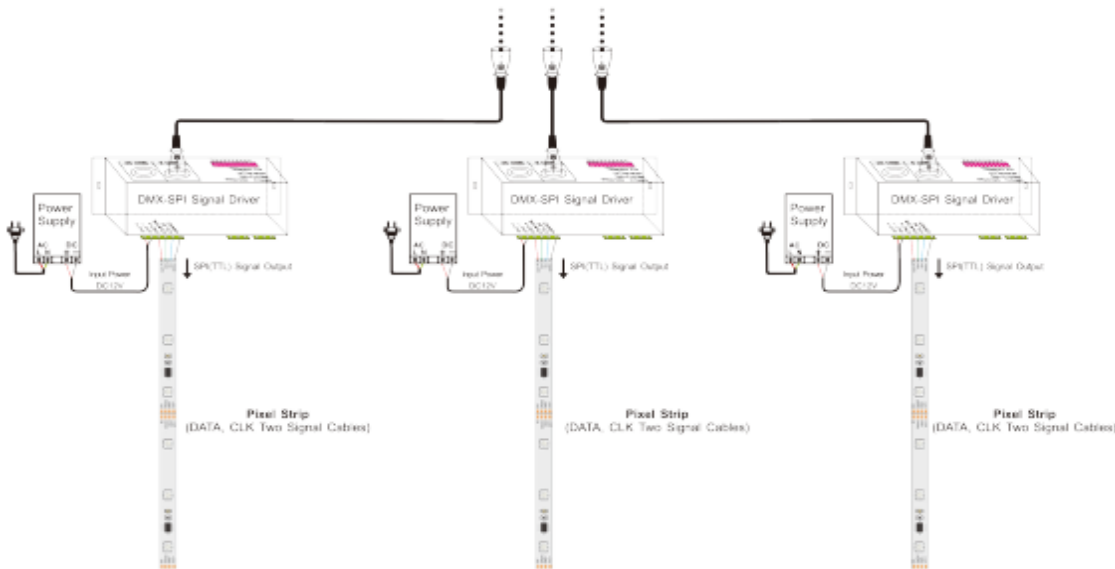


2) LED Wall Washer Conjunction Diagram.



3) LED digital Strip Conjunction Diagram.

dmx signal input



6. Attention:

- 1) The product shall be installed and serviced by a qualified person.
- 2) This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
- 3) Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 4) Please check if the output voltage of any LED power supplies used comply with the working voltage of the product.
- 5) Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 6) Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7) If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.