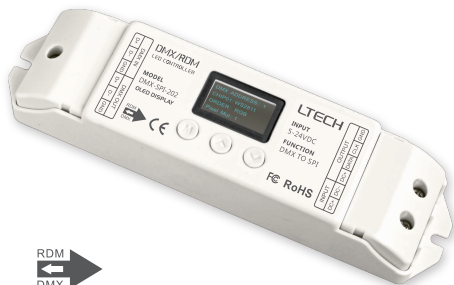


LED DMX512/RDM Controller DMX-SPI-202



FC CE RoHS

(warranty)
5 years



DMX-SPI-202 converts DMX512/RDM signal into SPI(TTL) digital signal and controls most of the pixel LED lights in the market. With the standard RDM remote device management protocol. DMX digital console can control every channel of the LED lights, realizing 0~100% dimming or defining all sorts of changing effects.

With OLED display, it's easy to select the IC type, RGB sequence, etc. Built-in 16 changing modes, would be worked as a single SPI controller independently.

An additional function in DMX-SPI-202 : connect to the DMX console, 6 (8) times of the LED lights can be controlled and the max. 1024 pixel can be controlled by 1pcs DMX-SPI-202 when virtual pixel function.

DMX-SPI-202 can realize parameters setting and firmware upgrading by long-range setting when work with LTECH RDM editor, it is convenient for current using and later versions upgrading.

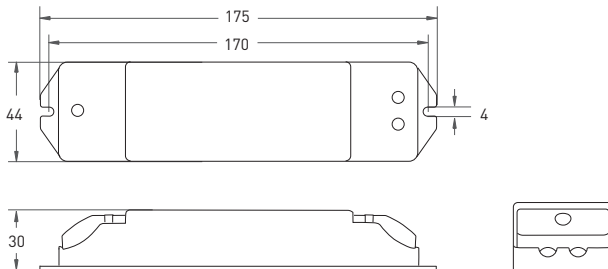
1. Product parameter:

DMX-SPI-202

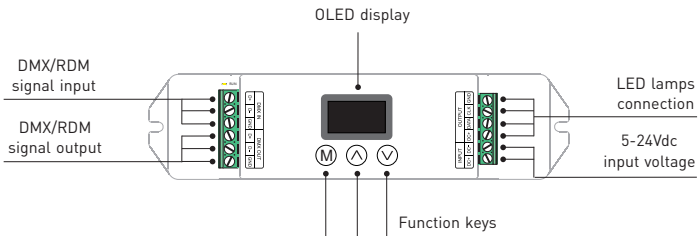
Input voltage:	5-24Vdc	Virtual pixel:	RGB 1-6 times, Max 1020 pixel
Power consumption:	1W		RGBW 1-8 times, Max 1024 pixel
Input signal:	DMX512/RDM	Working temp.:	-30°C-55°C
Output signal:	SPI(TTL)	Dimensions:	L175×W44×H30(mm)
Self-testing mode:	16	Package size:	L178×W48×H33(mm)
Control quantity:	RGB 170 pixels (510CH)	Weight(G.W.):	140g
	RGBW 128 pixels (512CH)		

2. Dimension:

Unit: mm



3. Terminal description:



4. Display screen interface description:

Short press **M** to enter the DMX setting interface.

Long press **M** to enter self-testing interface.

Short press **M** :
switch entries.

press **^** or **v** :
adjust parameters.

DMX setting interface

```
DMX ADDRESS: 1
CHIP01: WS2811
ORDER: RGB
Pixel Mul: 1
```

- ← DMX address setting (1-512)
- ← Chip type choices
- ← RGB sequence (the RGBW sequence cannot be changed)
- ← Pixel multiple choices [RGB 1-6] [RGBW 1-8]



Self-testing interface

```
01 RED JUMP
SPEED: 12
Exit
```

- ← Mode (total 16)
- ← Speed (16 levels)
- ← Exit

3CH self-testing

```
01 RED JUMP
SPEED: 12
WHITE: 1
Exit
```

- ← Mode (total 16)
- ← Speed (16 levels)
- ← White light (16 levels)
- ← Exit

4CH self-testing

Table of changing modes

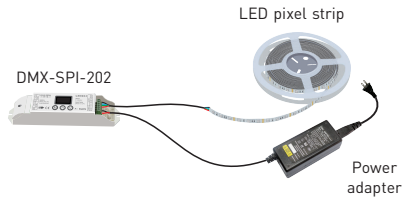
No.	Effect	No.	Effect	No.	Effect	No.	Effect
1	Red jumping	2	Green jumping	3	Blue jumping	4	White smooth
5	7 colors jumping	6	7 colors smooth	7	White meteor	8	7 colors meteor
9	7 colors flow	10	7 colors float	11	Red/White float	12	Green/White float
13	Blue/White float	14	Yellow/White float	15	Purple/White float	16	Cyan/White float

5. Wiring diagram:

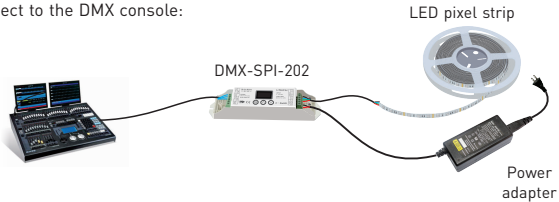
Wiring method	Signal cable	Compatible ICs
	Two cables DATA CLK	APA102, D705, GS8206, LPD1101, LPD6803, LPD8803, LPD8806, P9813, UCS6909, UCS6912, WS2801, WS2803
	Single cable DATA	APA104, KL592D, SK6812, SM16703, TLS3001, TLS3002, TM1803, TM1804, TM1809, TM1812, TM1814, TM1914, TM1914A, UCS1903, UCS1909, UCS1912, UCS2903, UCS2904B, UCS2909, UCS2912, UCS8904A, WS2811, WS2812

DMX-SPI-202 V6.0 version compatible with above ICs and supports firmware upgrade. Please note that some ICs are not supported before V6.0 versions.

5.1 DMX-SPI-202 work as a master console:

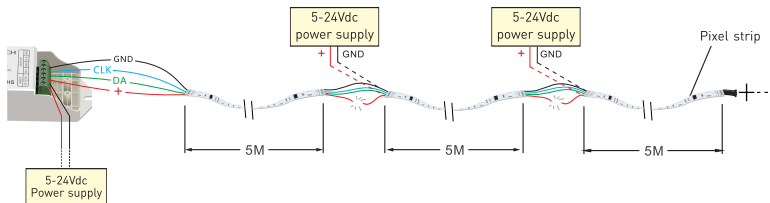


5.2 Connect to the DMX console:

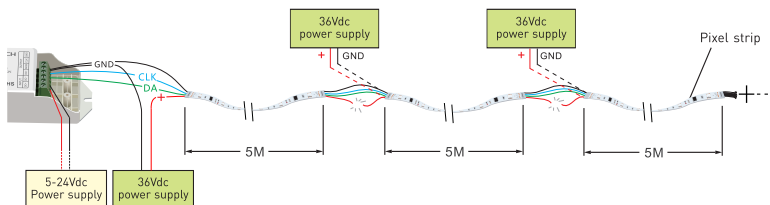


5.3 LED pixel strip wiring diagram:

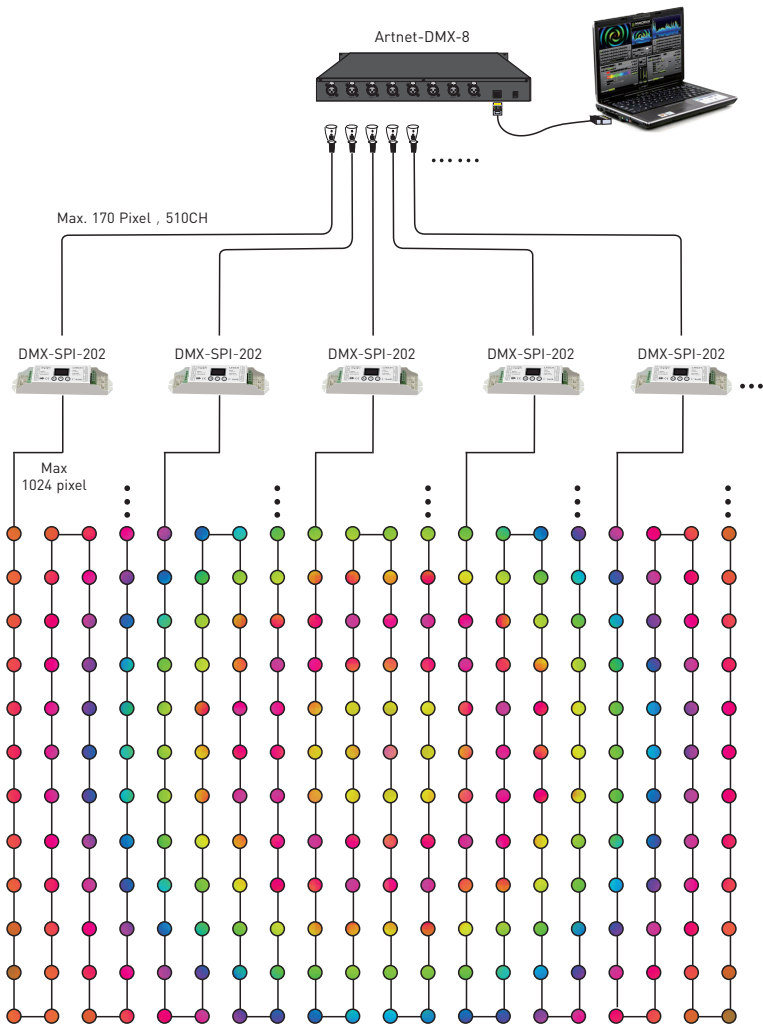
A. Same operating voltage connection.



B. Light fixtures and controller using different operating voltages.

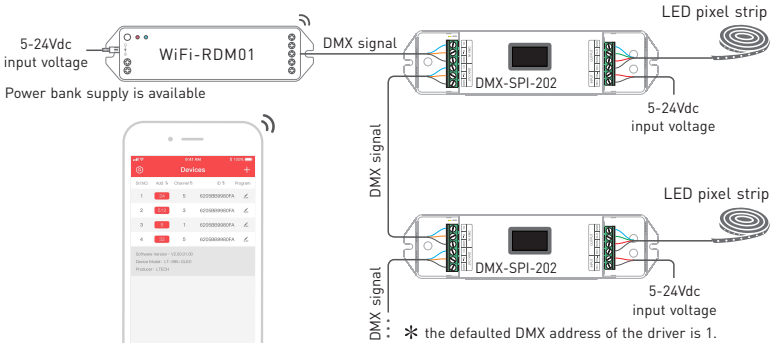


5.4 Connect to DMX PC console to realize decoder function:



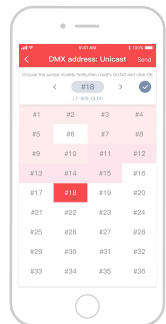
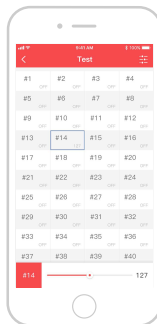
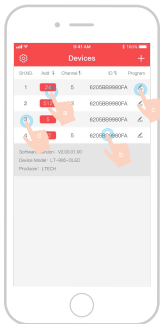
6. Work with RDM editor

DMX-SPI-202 can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters and firmware upgrade by long-range setting. Wiring diagram as below:



RDM editor App interface instruction

Download the App, setting the parameters after well connecting the RDM editor, please check the manual of WiFi-RDM01 for more details.



- a: Click "Add", edited the address in corresponding box.
- b: Click "ID", get more product details.
- c: Click " ", enter edited interface
- d: Click "No.", issue the recognizing command.

Test

DMX address setting

* No further notice if any changes in the manual. Product function depends on the goods. Please feel free to contact your supplier if any question.