DMX-SPI-202
DMX Controller

RDM ⬅➡ DMX

FC CE RoHS
warranty 5 years
SGS ISO9001:2008

DMX-SPI-202 converts the universal standard DMX512 signal into SPI(TTL) digital signal and controls most of the pixel LED lights in the market. 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.
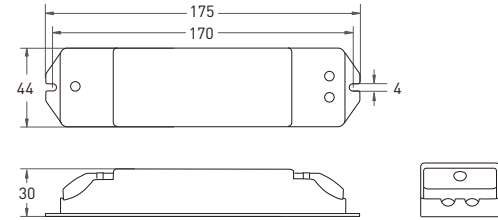
An additional function in DMX-SPI-202: connect to the DMX console, 6 times of the LED lights can be controlled and the max. 1024 pixel can be controlled by 1pcs DMX-SPI-202 via this virtual pixel house function.
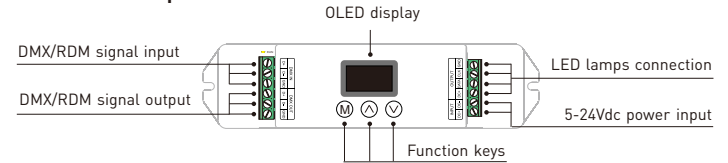
1. Product parameter:

DMX-SPI-202

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

2. Product dimension:

175
170
44
4
30

3. Terminal description:

OLED display
DMX/RDM signal input
DMX/RDM signal output
LED lamps connection
5-24Vdc power input
Function keys

4. Display screen interface description:

Short press M to enter the DMX setting interface.
Long press M to enter self-testing interface.

DMX setting interface

```
DMX ADDRESS: 1
CHIP01: D705
ORDER: RGB
Pixel Mul: 2
```
— DMX address setting (1-512)
— Chip type choices
— RGB sequence
— Pixel multiple choices (1-6)

M ∧ ∨

Short press M to switch entries, press ∧ or ∨ to adjust parameters.

Self-testing interface

```
01 RED JUMP
SPEED: 8
S-Press↑/↓:MODE
L-Press↑/↓:SPEED
```
— Mode (total 16)
— Speed (16 levels)
— Short press ∧/∨ to switch mode.
— Long press ∧/∨ to adjust brightness.

M ∧ ∨

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, TM1914, TM1914A, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811, WS2812

5.1 DMX-SPI-202 as master console:

LED pixel strip

DMX-SPI-202
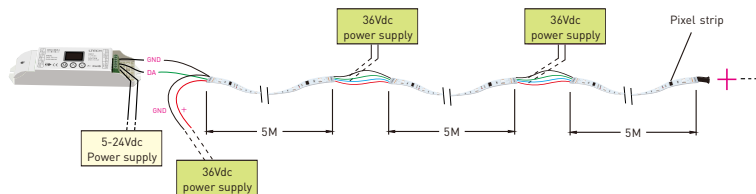
Power adapter

5.2 Connection with DMX console:

LED pixel strip

DMX-SPI-202

Power adapter

5.3 LED pixel strip wiring diagram:

A. Conventional connection method.

GND
DA
+

12Vdc power supply

12Vdc power supply

12Vdc power supply

Pixel strip

5M   5M   5M
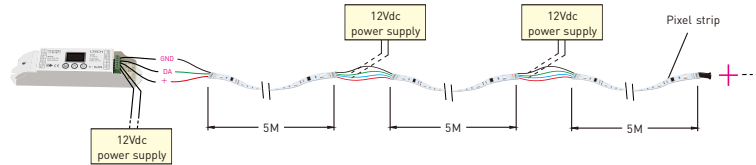
B. Light fixtures and controller using different operating voltages.

GND
DA
GND
+

5-24Vdc Power supply

36Vdc power supply

36Vdc power supply

36Vdc power supply

Pixel strip

5M   5M   5M

5.4 Connected with DMX computer console to realize decoder function:

Artnet-DMX-8

Max 170 pixel, 510CH

DMX-SPI-202   DMX-SPI-202   DMX-SPI-202   DMX-SPI-202   DMX-SPI-202

Max 1024 pixel
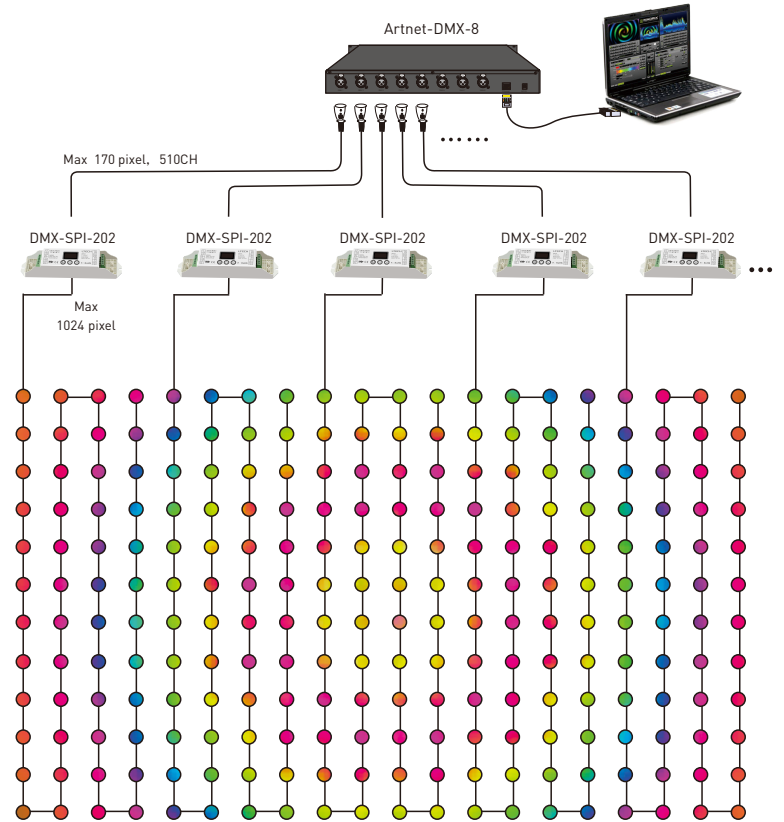
＊No further notice if any changes in the manual.
　Product function depends on the goods.
　Please feel free to contact your supplier if any question.