

Product Specifications

Model number: 200679DMX-4

Products name: 4 Channel DMX512 decoder



Product Description

This DMX512 decoder adopts the advanced micro control unit, It can receive the DMX-512 standard digital control signal which is internationally widely used. It changes the signal into PWM control signal to actuate the LED lamp. It can also connect the DMX digital console to change the light or each dynamic effect. In addition, when the decoder is not connected with the DMX console, it can be used as a synchronous controller. That is to say you can Synchronously control number of decoders and LED lights.

Technical Parameters

- Working temperature: -20-60 °C
- Supply voltage: DC12~24V
- Output:4 channels
- External dimension: L166×W67×H41mm
- Packing size: L170×W95×H50 (mm)
- Net weight: 360g
- Gross weight: 410g
- Static power consumption: <1W
- Output current: each channel 4A (max 6A)
- Output power: 12V:<192W, 24V:<384W

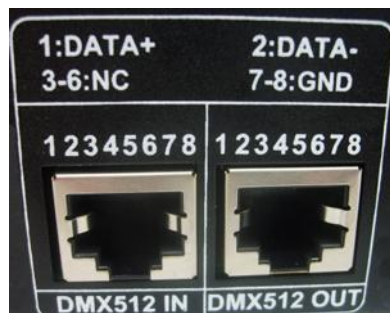
- DMX512standard: DMX512/1990

Connection description:

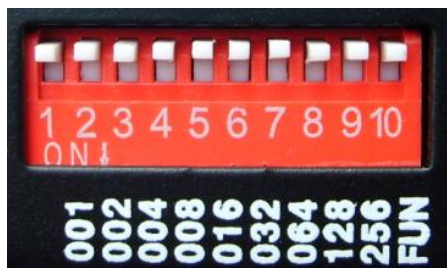
DMX Input/output interface:



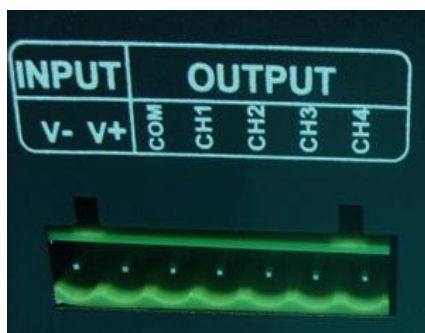
DMX Input/output interface: RJ45 Port



Address code and set feature service interface:



Power and Load interface:



Adopt male and female connector with screw.

Direction for use

This product is in compliance with DMX512 protocol, and compatible auto-index addressing and manual establishment address.

1. Each universal DMX controller takes up 4 DMX addresses. It adopts 2 ways code switch to set up the

address. When adopting the autoindex addressing, all switches are “off” status. When adopting the code switch to set up address, the 10th bit(FUN) is “off” status, and other 9 bits are binary value code switch which are used to set up the DMX starting address code. The first bit is the lowest order bit, and the ninth is the highest order bit. That can set up 511 address codes. The DMX starting address code is equal to the sum of 1st to 9th bit. If move down one bit of code switch (“ON” set “1”), you can get the placevalue of this bit. If move up (set “0”), the placevalue is 0. For example: if you want to set up DMX starting address code for 73, you should move down the 7th, 4th, and 1st bit of code switch for “1”, and others for “0”. Then the placevalue’s sum of 1st to 9th bit is $64+8+1$. That is to say, the DMX512 starting address code is 73. (The correspondence dials code position is as follows)

To choose the channel from the Dial in-line Package(DIP) Switch:

Decimals	1	2	3	4	5	6	7	8	9	10
Weight-number	1	2	4	8	16	32	64	128	256	FUN

1. Example 1:

Like figure 1, to set up the DMX starting address code for 37, should move down the 6th, 3th, 1st bit for “1”, others for “0”. Then the address code sum of 1st to 9th bit is $32+4+1$, as is for 37.

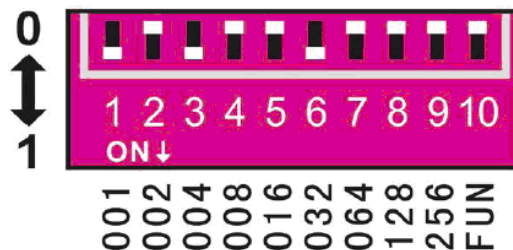


Figure 1

2. Example 2:

Like figure 2, to set up the DMX starting address code for 328, should move down the 9th, 7th, 4th bit for “1”, others for “0”. Then the address code sum of 1st to 9th bit is $256+64+8$, as is for 328.

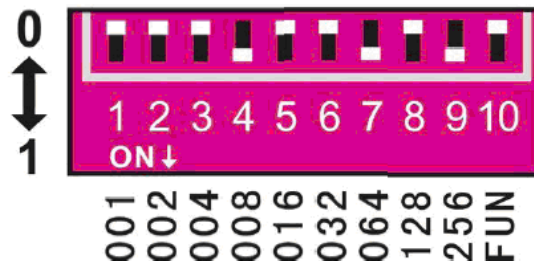


Figure 2

Other function's direction for use

1. Test function:

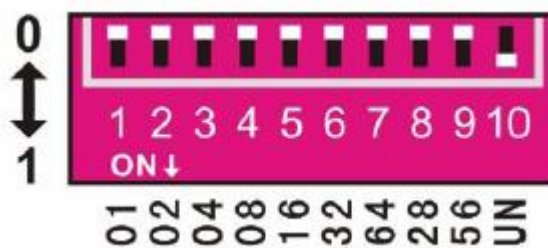
Signal detection way: When FUN(10)=OFF, and receiving the main control console DMX512 signal, the green signal light on the outer covering would twinkle fast. At the moment, the state of luminaire is controlled by the console. When FUN(10)=ON, the green signal light's speed would slow down. This time, the state of luminaire is controlled by the addressable switch. When “FUN”=“ON”, the test function like figure 3:

1-9 switch OFF: black

Switch 1=ON: red

Switch 2=ON: green

Switch 3=ON: blue



Switch 4=ON: yellow
 Switch 5=ON: All right
 Switch 6=ON: Flash
 Switch 7=ON: jumpy changing
 Switch 8=ON: All-color gradual changing
 Switch 9=ON: Flowing

Figure 3

2. Speed choice of jumpy changing and gradual changing's effect:

When Fun(10)=ON, and 6th or 9th bit being for "ON", switch 1 to 5 are for available grade of speed. There are 6 grades altogether. 1-7 switch OFF: 0 grades of speeds

Switch 1=ON: 1 grade of speeds
 Switch 2=ON: 2 grades of speeds
 Switch 3=ON: 3 grades of speeds
 Switch 4=ON: 4 grades of speeds
 Switch 5=ON: 5 grades of speeds

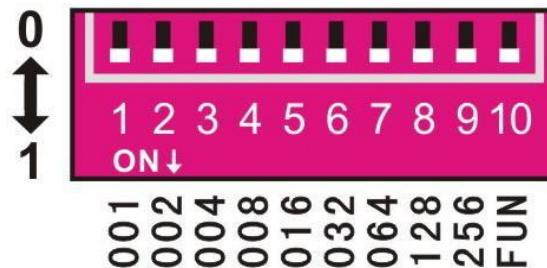
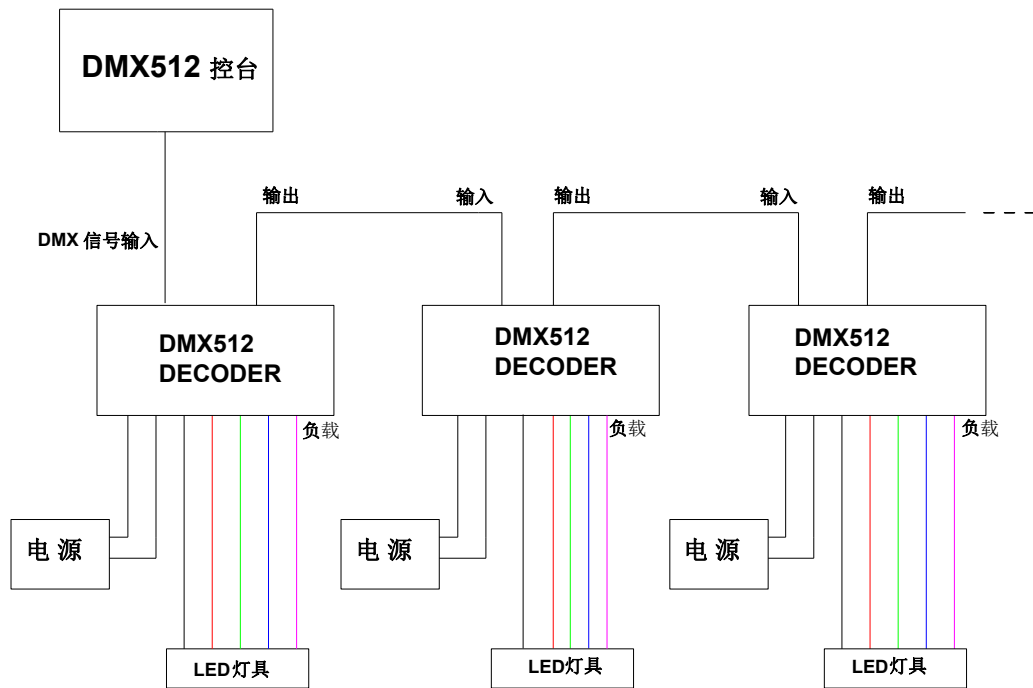


Figure 4



Like figure 4, when all switches are "ON" at the same time, the more value is taken as final. The state of decoder is Flowing of test function. Its variable speed is 5. In addition, when signal indicator (green) blinks slowly, it runs the built-in program effectiveness of decoder. When the decoder receives the DMX signal, signal indicator will flash rapidly.

Typical Application:



Cautions

- 1、 This products Input voltage is DC12~24V,other input voltage are not allowed.
- 2、 Lead wire should be connected correctly, according to the wire color and the connecting diagram offers.
- 3、 Overload are prohibited.