

## Product Specifications

**NAME: DMX Common Controller**



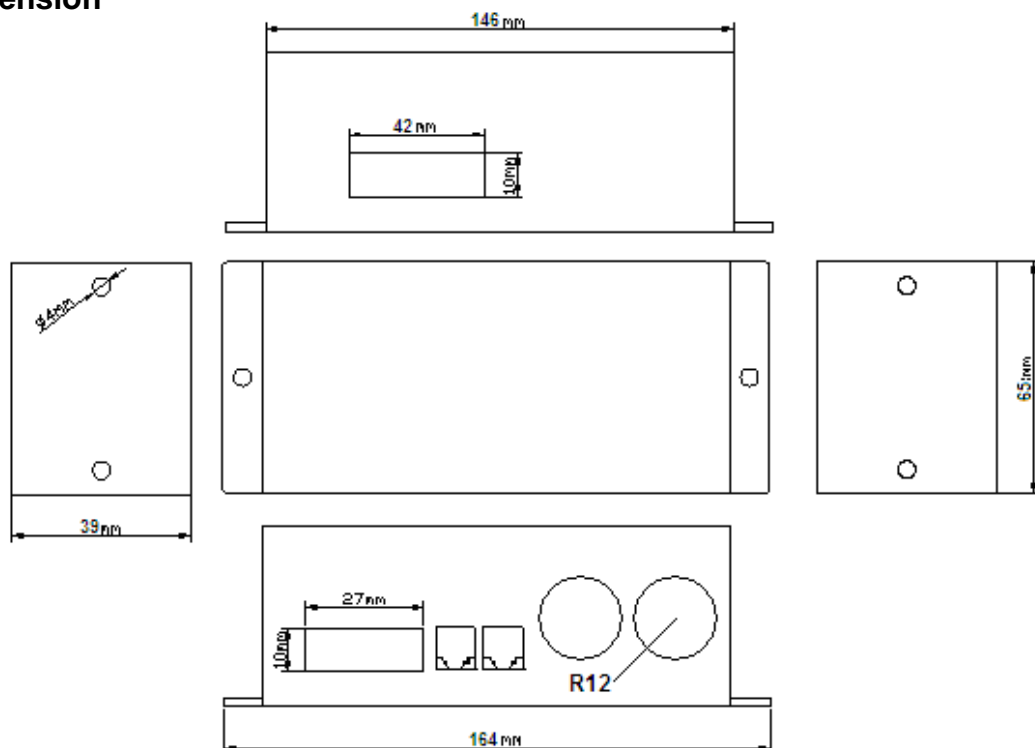
## Summarization

DMX common controller adopts the advanced micro control unit, it receives standard DMX-512 digital control signal and transformed it into PWM signal for driving LED; You could connect DMX module with DMX digital console to achieve dimming or various changes in procedures.

## Technical Parameters

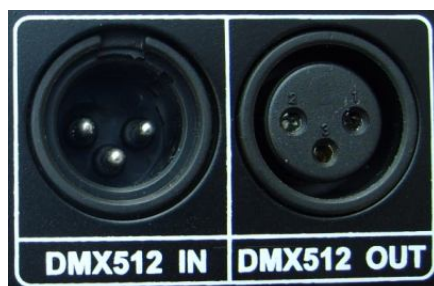
- Working temperature: -20-60 °C
- Supply voltage: 5V~24VDC
- Output: 3 channels
- External dimension: L165×W68×H40 (mm)
- Packing size: L180×W95×H60 (mm)
- Net weight: 320g
- Gross weight: 355g
- Static power consumption: <1W
- Output current: each channel 4A
- Output power: 5V:<60W, 12V:<144W, 24V:<288W

## External Dimension



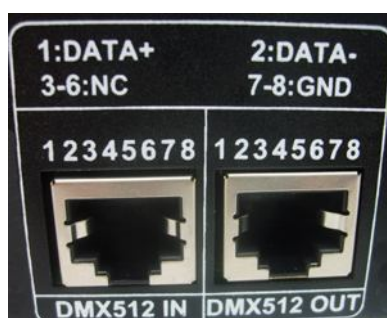
## Interface specifications

DMX input/output interface:



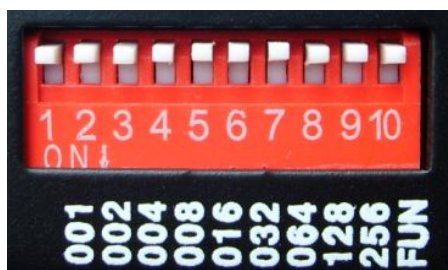
Adopt 3-pin-block as DMX signal interface.

DMX input and output interface2:

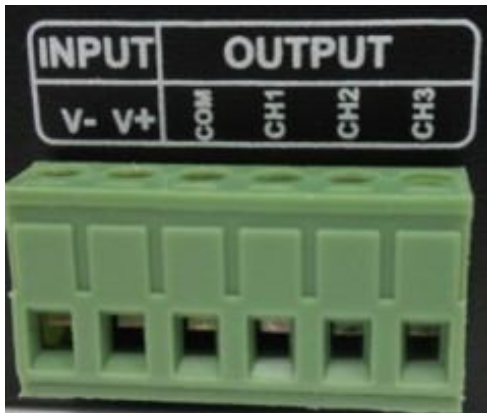


Adopt RJ45 as signal interface

Address code and the function setting interface



Supply power and load interface:



Adopt 6pin screw as power and load interface

### Direction for use

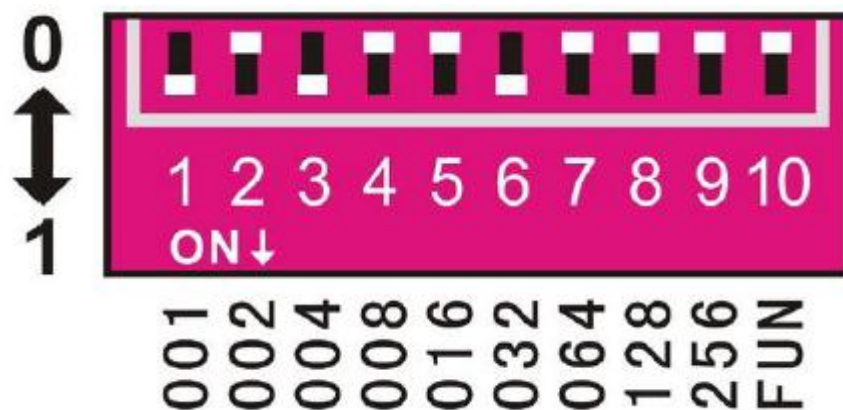
#### DMX address code settings

Each DMX common controller occupied 3 DMX addresses, adopt coding switch set address, it is a Binary numerical code switch which is setting DMX original address code from 1 to 9, 1 is the lowest, and 9 is the highest, 511 address codes could be setted in all. DMX original address code equal aggregate value of the coding switch value from 1 to 9, dial the coding switch upwards (ON is setted 1), the value of bit can be gotten, on the contrary, the value of bit is 0.

DMX signal can be received when coding switch FUN(10)=OFF (ON is setted 0).

1. example 1:

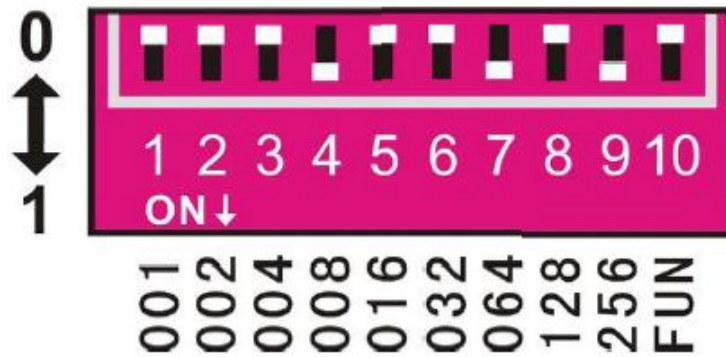
Look at the following picture, if you want to set 37 as the address code, you can only dial down the first, the third and the sixth code switch, the aggregate value of coding switch value from 1 to 9 is  $32+4+1$ , that is, the original address code of DMX512 is 37.



Picture 1

2. example 1:

Look at the following picture, if you want to set 328 as the address code, you can only dial down the ninth, the seventh and the fourth code switch, the aggregate value of coding switch value from 1 to 9 is  $256+64+8$ , that is, the original address code of DMX512 is 328.



Picture 2

Other functions direction for use

1. Testing function:

The tenth bit of coding switch is jFUNj, that is a built-in function button. FUN=OFF shows the DMX decoder function, DMX signal can be received.

The default coding switch 1-9 is off: black

Switch 1=ON: red

Switch 2=ON: green

Switch 3=ON: blue

Switch 4=ON: yellow

Switch 5=ON: purple

Switch 6=ON: cyan

Switch 7=ON: white

Switch 8=ON: seven-color jumpy changing (8 steps speed)

Switch 9=ON: seven-color gradual changing (8 steps speed)

2. The speed choice of jumpy changing, gradual changing effect

When test the function, switch 8=ON shows the seven-color jumpy changing effect, switch 9=ON shows the seven-color gradual changing effect, every effect has 8 steps speed:

Off switch from 1 to 7: 0 steps

Switch 1=ON: 1 steps

Switch 2=ON: 2 steps

Switch 3=ON: 3 steps

Switch 4=ON: 4 steps

Switch 5=ON: 5 steps

Switch 6=ON: 6 steps

Switch 7=ON: 7 steps (the greatest speed)

There are several switches=ON at the same time, the great value is standard. All dial code switches=ON as the following picture, the state of the decoder shows: to test the functional effects of gradual changing, the speed of change is 7.



Typical applications

