

## Декодер DMX216 (12/24V, 180/216W)



### Summarize

Thank you for using DMX216 decoder. With advanced micro-computer control technology, DMX216 decoder convert the widely used DMX512/1990 signal to analog signal. Can choose 1~3 output channel, 256-level brightness control. For connecting of light console and analog device, or lighting&building lamps controlling.

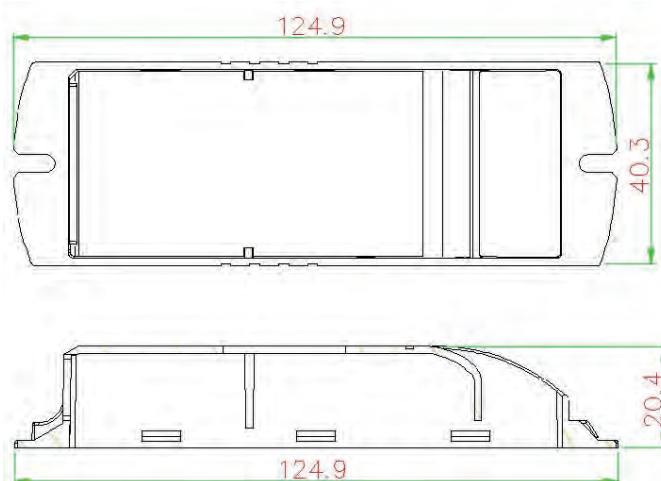
### Feathers

- Meets DMX512/1990
- 256-level brightness, full-color control
- 3 output CH., can drive 3A (Each CH.)
- With control system, can express perfect effect
- Can drive 1~3 channel of each lamp
- Can set the DMX address freely
- High interference resistant, self-recovery function available

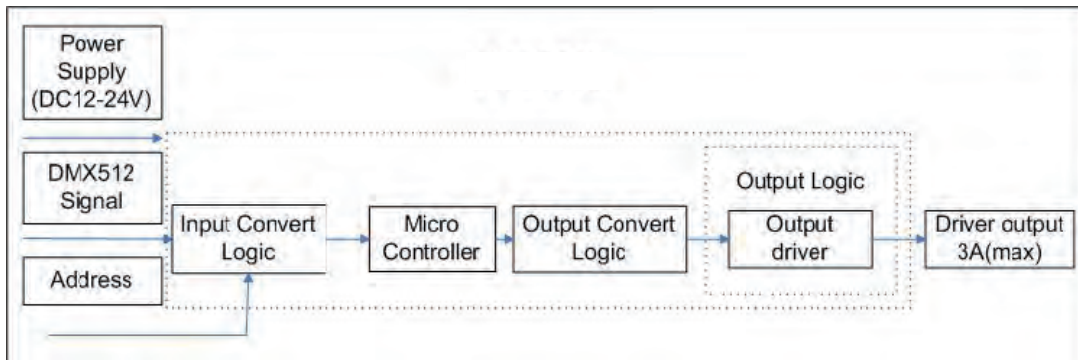
### Tech. characteristics

- Decode CH.: 1~3
- Input Signal: DMX-512/1990 digital signal
- Output Signal: 0~24V PWM signal, can drive 3A (Each CH.)
- Power Supply: DC, +12-24V
- Power Dis.: <1W
- Power Output: <216W(24V); <180W(12V)
- Operating Temp.: 0~70°C
- Size: 125(mm)\*40(mm)\*20(mm), can be custom-made
- Weight: ≤62g

### Dimension

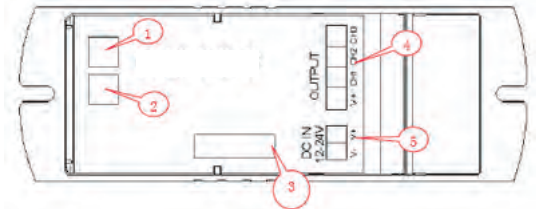


## Internal Block Diagram



## Appearance

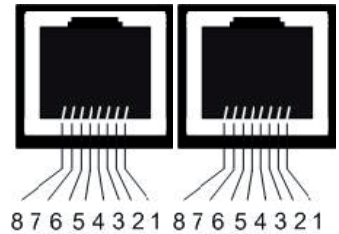
- (1), (2) DMX signal input&output interface(RJ45)
- (3) Address setting interface
- (4) Driver output interface
- (5) Power input interface



## Interface Introduction

- DMX signal interface.
- Address setting interface.  
How to use See "DMX series of addresses dial code table".
- Power input interface.  
DC 12-25V input, supply power for decoder and the lamps it takes.
- Driver output interface.  
Common anode, V+ and R,G,B interface, can drive kinds of RGB module or single-color module. Can regulate output current according to the actual load.

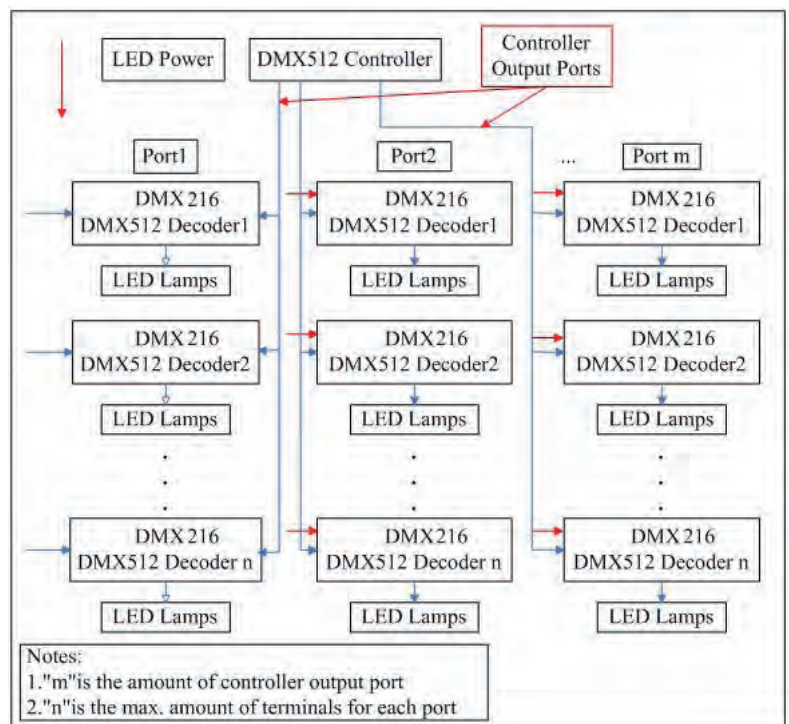
*Remark: Connect the anode and RGB wire of common anode RGB module to the output interface of decoder directly. Connect the anode wire of single-color module to V+ on decoder, and connect the cathode wire to one of RGB pin according to the LED's color. Connect several colors single-color module to one decoder, please connect their anode wires to V+ pin on decoder.*



- 1: DATA+
- 2: DATA-
- 3-6: NC
- 7-8: GND

## How to use

DMX216 is controlled by DMX-512 digital signal. The frontage is DMX512 transmitter, take EC-DMX512 for example, to control 0~24V analog devices. We suppose to drive LED to introduce it. The connecting is below.



## Typical Applications

- Circuit Diagram 1



## Connecting of DMX-512 Signal

- The wire for DMX signal is STP, the DMX signal has positive and negative signal. Pay attention to the polarity while soldering. Connect the positive signal, negative signal and GND to the corresponding signal of DMX216.
- Connect a signal terminal at the end of the whole connection (To be DMX216 DIP switches set aside under section 10 can)