

|           |         |
|-----------|---------|
| Project : | Date :  |
| Cat. No : | Type :  |
| Notes :   | Volts : |

- Use to control the LED lamps with IC chips
- Controllable with the international standard DMX512 protocol
- Compatible with multiple IC chips, easy to control
- Multiple models in series/parallel connection, easy to install
- Workable with DMX amplifier

### NTDMX512-1809 (CONSTANT VOLTAGE)

|                       |                                |
|-----------------------|--------------------------------|
| <b>Input voltage:</b> | 12VDC or 24VDC                 |
| <b>Input signal:</b>  | DMX512/1990                    |
| <b>Output signal:</b> | SPI/TTL                        |
| <b>Compatible IC:</b> | TM1803, TM1804, TM1809, TM1812 |
| <b>Output power:</b>  | 512 channels                   |
| <b>Dimming range:</b> | 0-100%                         |
| <b>DMX socket:</b>    | Standard XLR-3                 |



## DIP SWITCH FUNCTION

### 1. Test mode

Enter test mode without DMX signal input

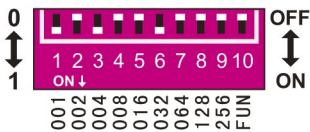


Figure 1

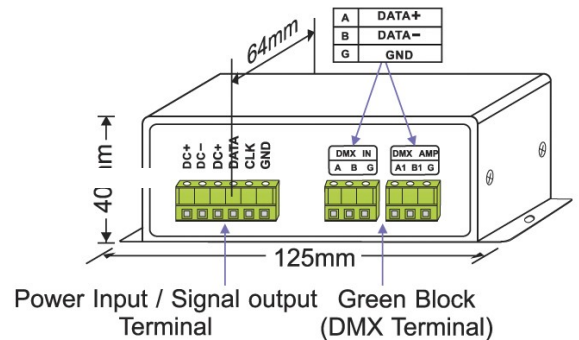
As figure 1, DIP1-9 means 9 changing modes, as follows:

| DIP1 | DIP2  | DIP3 | DIP4   | DIP5   | DIP6 | DIP7  | DIP8 | DIP9    |
|------|-------|------|--------|--------|------|-------|------|---------|
| Red  | Green | Blue | Yellow | Purple | Cyan | White | Skip | Gradual |

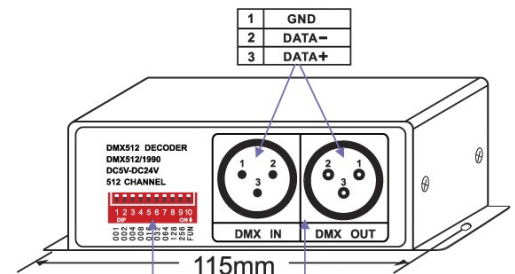
One DIP switch is ON, it works its mode. When several dip switches are ON, subjected to the highest switch value, e.g. DIP1-10 are ON, it works DIP9's mode.

In build-in mode, DIP1-7 is statck color, DIP8-9 is dynamic mode. In dynamic mode, DIP1-7 is the speed adjust of DIP8 or DIP9. As follows:

| DIP1    | DIP2    | DIP3    | DIP4    | DIP5    | DIP6    | DIP7    |
|---------|---------|---------|---------|---------|---------|---------|
| Speed 1 | Speed 2 | Speed 3 | Speed 4 | Speed 5 | Speed 6 | Speed 7 |



( Side A )



( Side B )

## Natech Industrie

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## 2. DMX mode

Enter DMX mode with DMX signal input

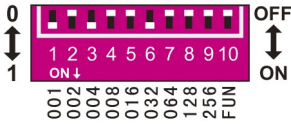


Figure 2

As figure 2, DIP1-9 correspond 1-256 DMX address.

As follows:

| DIP | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Add | 001 | 002 | 004 | 008 | 016 | 032 | 064 | 128 | 256 |

Switch DIP1-9 to ON, can get the value of corresponding DMX address. Example, just switch DIP8 to ON, then initial DMX address is 128th. Several DIP are ON, add the corresponding value. Example, switch DIP4, DIP5, DIP7 to ON at the same time, then get 3 values 008+016+064=88. So the initial DMX address is 88th.

## 3. FUN mode

Compatible driving IC for this model have difference for high speed and low speed (800k/400k). When FUN=ON, means low speed; when FUN=OFF, means high speed.

## Safety warnings

Please don't install this controller in lightening, intense magnetic and high-voltage fields.

1. To reduce the risk of component damage and fire caused by short circuit, make sure correct connections
2. Always be sure to mount this unit in a area that will allow proper ventilation to ensure a fitting temperature.
3. Check if the voltage and power adapter suit the controller
4. Don't connect cables with power on; make sure a correct connection and no short circuit checked with instrument before power on
5. Please don't open controller cover and operate if problems occur.
6. This product is non-waterproof, please avoid sun and rain. Put it in a waterproof box if install outdoor.

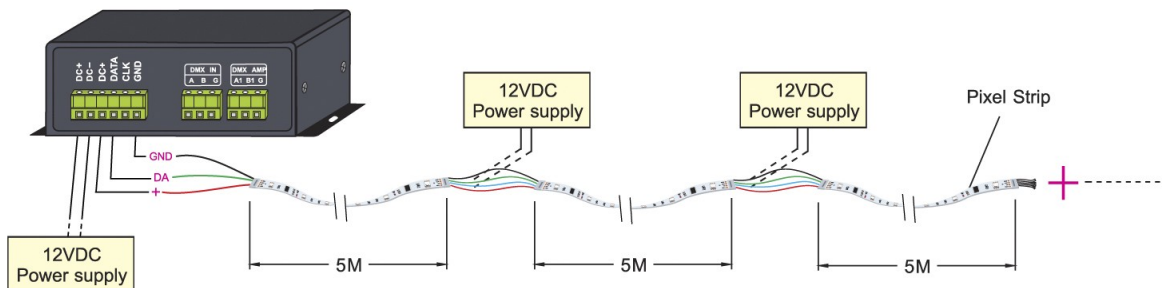
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Conventional connection method.



DMX wiring diagram.

