

DMX PIXEL DECODER

Product Code: NF-DMX-Pixel-Decoder

NOVA FLEX[®]

Features

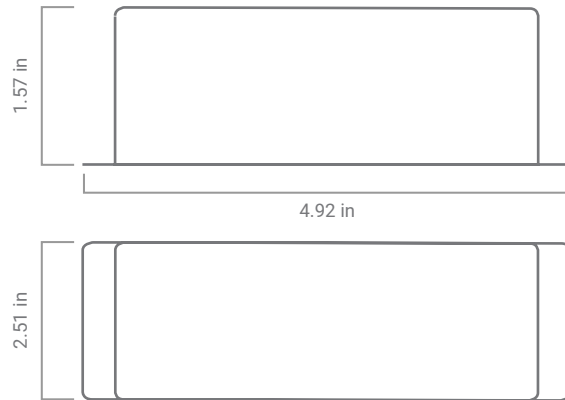
- Converts the universal standard DMX signal into SPI (TTI)
- Controls every channel
- Edit color changing effects
- Only use with DRGB ribbon & neon



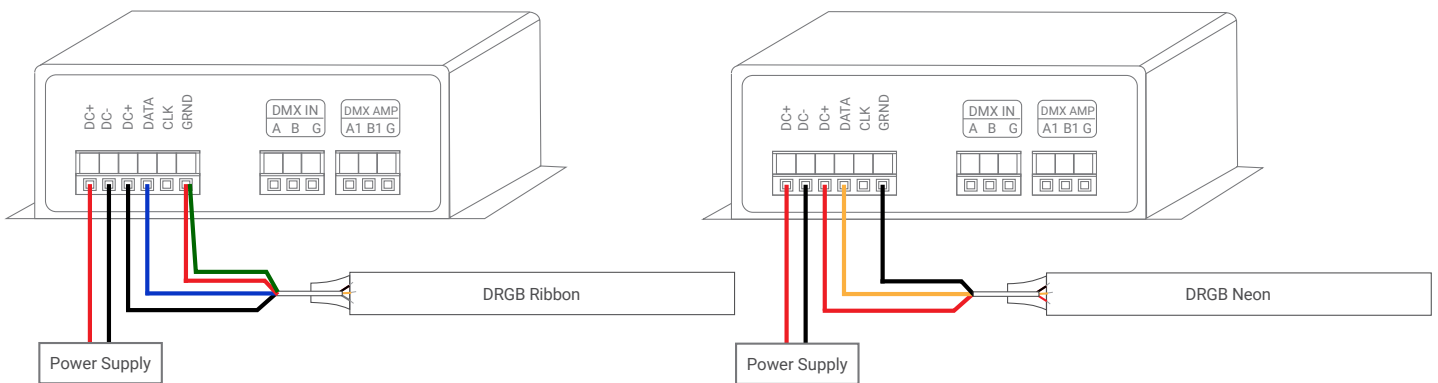
Data

| | |
|-------------------|-----------------------|
| Input Signal | DMX512 |
| Input Voltage | 5 - 24 VDC |
| Output Signal | SPI |
| Decoding Channels | 512 |
| DMX512 Socket | XLR-3, Green Terminal |
| Dimming Range | 0 - 100% |
| Working Temp | -22° - 149° F |
| Weight | 300 Grams |

Dimensions



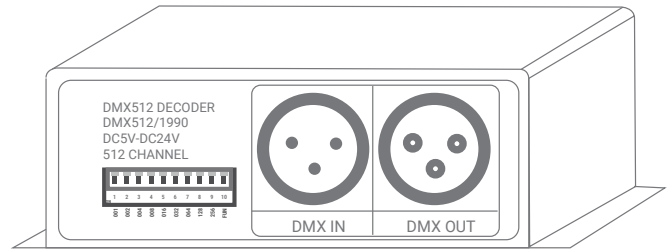
Wiring Diagrams



OPERATION DMX PIXEL DECODER

Output Port Definition

| No. | Port | Function | |
|-----|--------------------------|----------|----------------------------------|
| 1 | Power Supply Input Port | DC+ | 5 - 24VDC LED Power Supply Input |
| | | DC | Supply Input |
| 2 | Power Supply Connect LED | DC+ | LED Power Supply Output Anode |
| | | DATA | Data Cable |
| | | CLK | Clock Cable (N/A) |
| | | GND | Ground Cable (DC-) |



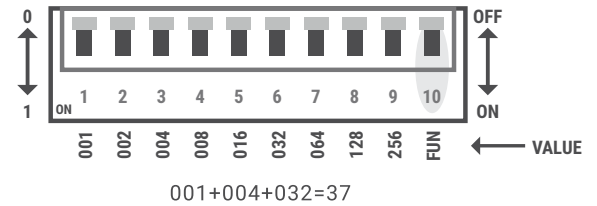
Dip Switch Operation

How to set DMX address via dip switch:

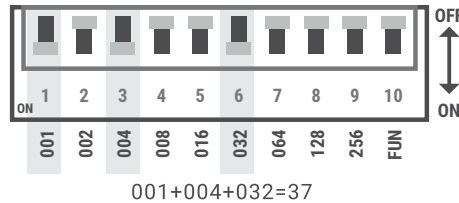
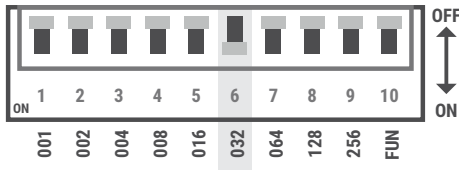
The Decoder enter into DMX control mode automatically when receiving DMX signal. Like figure upward: FUN=OFF is high speed (upward), FUN=ON is low speed (downward)

The driving chip of this decoder has option for high and low speed (800K/400K), please choose the suitable speed according to the design of your LED lights, in most cases, it is high speed.

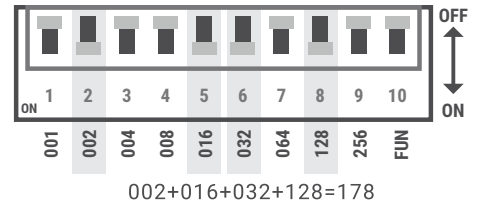
DMX address value = the total value of (1-9), to get the place value when in "on" position, otherwise will be 0.



E.g.1: Set Initial Address To 32.



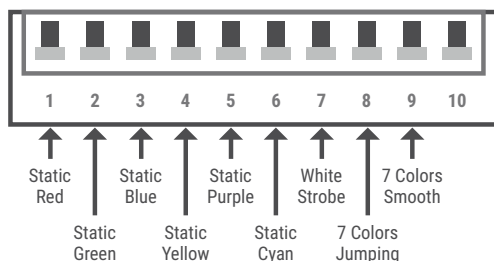
E.g.2: Set Initial Address To 178.



Testing Function

The DMX decoder will be entered into self control mode automatically without DMX signal input

| Dip Switch | 1 - 9 = OFF | 1 = ON | 2 = ON | 3 = ON | 4 = ON | 5 = ON | 6 = ON | 7 = ON | 8 = ON | 9 = ON |
|--------------------|--------------|------------|--------------|-------------|---------------|---------------|-------------|--------------|------------------|-----------------|
| Self-Test Function | Static Black | Static Red | Static Green | Static Blue | Static Yellow | Static Purple | Static Cyan | White Strobe | 7 Colors Jumping | 7 Colors Smooth |



For changing effects (Dip Switch 8/9=on) DIP switch 1-6 is used to realize 6 speed levels. (6=on, the fastest level)

For changing effect (Dip Switch 7=on) Static color will be showed when 1=on or 6=on, 2-5=on will be white strobe effect.

Attn: When several dip switches are on, subjected to the highest switch value. As the figure above shows, the effect will be 7 colors smooth at 6 speed level.