

# DMX PIXEL DECODER

Product Code: NF-DMX-Pixel-Decoder

NOVA FLEX<sup>®</sup>

## Features

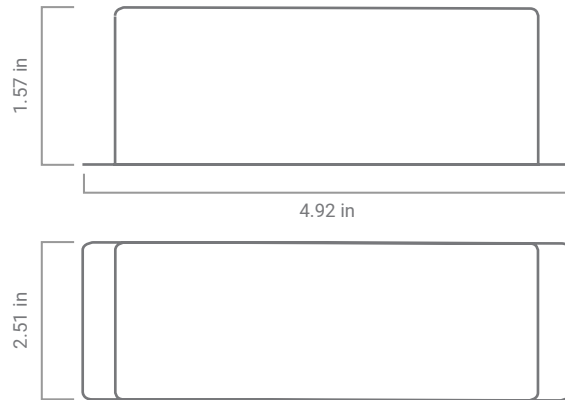
- Converts the universal standard DMX signal into SPI (TTI)
- Controls every channel
- Edit color changing effects
- Only use with DRGB ribbon & neon



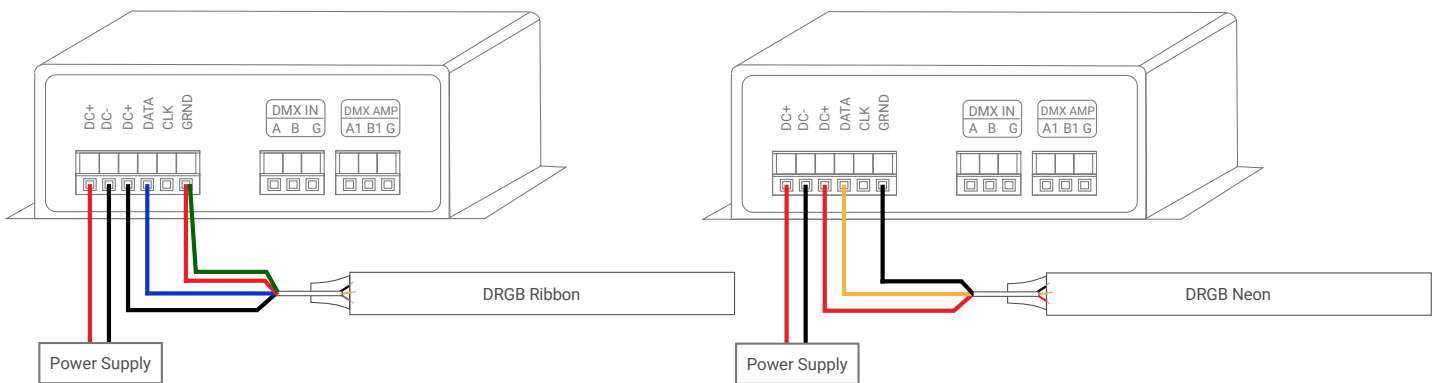
## Data

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



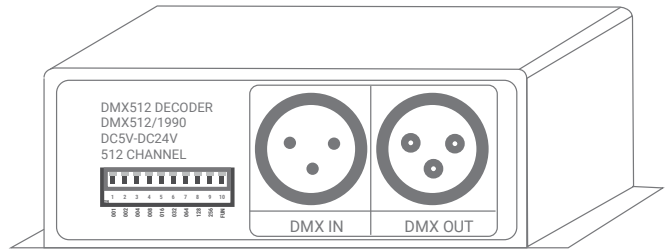
## Wiring Diagrams



# 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-)



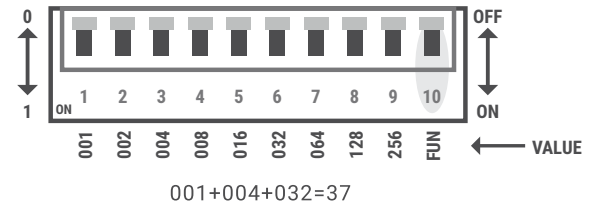
## Dip Switch Operation

### How to set DMX address via dip switch:

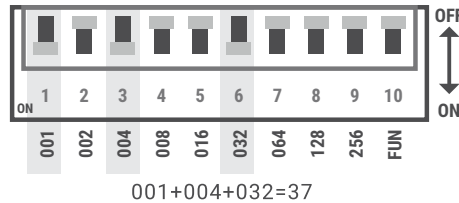
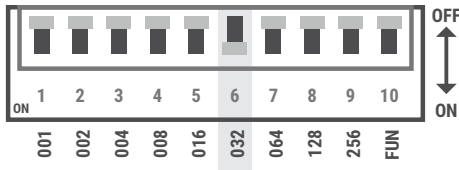
The Decoder enter into DMX control mode automatically when receiving DMX signal. Like figure upward: FUN=OFF is high speed (upward), FUN=ON is low speed (downward)

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.

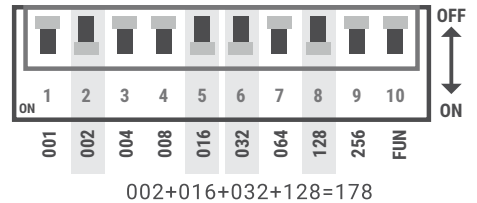
DMX address value = the total value of (1-9), to get the place value when in "on" position, otherwise will be 0.



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



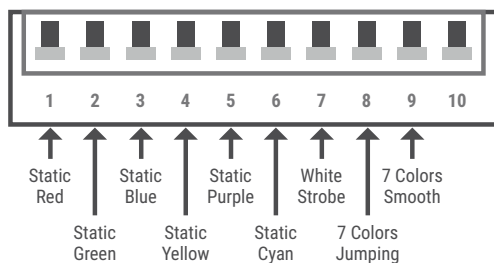
E.g.2: Set Initial Address To 178.



## 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.**