

## NLED Pixel Controller Mini

The NLED Pixel Controller Mini supports several of the most popular pixel types and has the ability to accept standard DMX-512, in addition to TTL serial signals from a computer, microcontroller, Arduino, or other TTL serial devices. Several configuration options, such as pixel IC type, amount of pixels to control, reception baud rate, and end-of-frame spacing can be customized to work well with your project. All configurations are changed over the serial connection header or through the DMX hardware(RS-485) using a compatible serial adapter or DMX transmitter. This small(1.5" x 1.5" x 0.5") design is great for small amounts of pixels for DMX control, strands, rope style lights, or even low-pixel LED matrices. Serial control is compatible with NLED Matrix, the Java based open-source LED Matrix control and mixing software.

### Short Feature List:

Selectable Pixel IC Type, WS2801/WS2811/WS2812/WS2812B/LPD8806 compatibility  
DMX-512 Control or TTL Serial Control, at any baud rate.  
Serial Control compatible with FTDI, PIC, ATMeI, Arduino, and most any other TTL serial device.  
Small form factor  
See Datasheet for full feature list.  
Designed and Manufactured in America. Includes a Full Warranty and Guarantee

Purchase	<a href="http://www.NLEDshop.com">www.NLEDshop.com</a>
Datasheet	<a href="#">View / Download</a>
Interface Software Source Code(PDE)	<a href="#">Download</a>
Interface Software Windows 32-bit	<a href="#">Download</a>
Interface Software Linux 32-bit	Use Source Code
Interface Software MacOSX 32-bit	Use Source Code

### Latest Products:

[NLED 16-Bit RGBW Lamp Controller](#)[NLED 4 Channel DMX Wash Controller](#)[NLED Pixel Controller Mini  
\(WS2801/WS2811/WS2812/LPD8806\)](#)[NLED Aurora Control Software](#)

### News and Updates:

[NLED 16-Bit RGBW Lamp Controller Released](#)[4 Channel DMX Wash Controller Released](#)[Pixel Controller Mini Released](#)[Store Open](#)

# SPECIFICATIONS AND PINOUT:

## Supported Pixel I.C. Types:

Full Pinout And Information  
Found On The Datasheet

Name	DMX Pixels	Serial Pixels	Color Bits	Output Data Speed	PWM Speed
WS2811	41	116	8-bit	800Khz	400Hz
WS2812	41	116	8-bit	800Khz	400Hz
WS2812B	41	116	8-bit	800Khz	400Hz
WS2801	170	1024*	8-bit	2.66MHz SPI	2.5kHz
WS2803	170	1024*	8-bit	2.66MHz SPI	2.5kHz
LPD8806	170	1024*	7-bit	8MHz SPI	4kHz

\*More hasn't been tested but would be supported but at lower frame rates

## DIP Switches

DIP Switch	1	2
DMX Control	0	0
Serial Control	1	0
Test	0	1
Command	1	1

5v-12v Data Clock  
(DAT) (CLK) GND

D+ D-  
(Pin 3) (Pin 2) GND

