



# DIN PIXIE – Datasheet

SPI Pixel Strip/Dot controller: Control 2 universe of LED pixels over two outputs.



ENTTEC's DIN Pixie allows control of 2 DMX universes of SPI pixels.

Control a maximum of (256 RGBW / 340 RGB / 1024 White) LED's. Select between control modes and innovative grouping functions.

The DIN PIXIE has 4 personalities control how the two DMX-512A inputs are used to control pixel fixtures, providing flexibility to your installation.

Configuration, updates and standalone show upload is undertaken through a robust USB type-B port.

Standalone mode allows playback of a pre-recorded sequence with advance control option such as, play count, loop delay and play on power up.

Alternatively, the DIN PIXIE can be controlled via the USB Type-B connector using the PIXIE DRIVER API.

The DIN Pixie is powered by connecting it to the same power source as your LED pixel strip or Dots with a wide 5-48VDC input range.

Use ENTTEC's free PRO-MANAGER software to test, update and configure your DIN Pixie.

## Features

- Convert 2 DMX universes of DMX512 to Pixel Strip/Dots control protocols.
- Configurable DMX start address and pixel grouping function to reduce control channel requirements.
- Standalone show playback using inbuilt flash memory (4000 frames [~100 seconds]).
- Option to play a show on DMX loss or blackout output.
- Support for RGB and RGBW pixel strip and dots.
- Wide (5-48VDC) operating voltage - power from the same source as your pixels.
- All ports feature ESD surge protection and resettable fuses to block external faults & electrical noise propagation through control infrastructure.
- Power and output status LED indicators.
- Configurable and updatable via USB.
- DMX input on RJ45 connectors. (ANSI E1.27-2).
- Robust USB type-B connector.
- Pluggable screw terminal output connectors.
- Test output sequences via PRO-MANAGER (no external data source required).
- Widely compatible FTDI driver USB support.
- Backward compatible with the ENTTEC Pixie Driver API for USB -> SPI control.

## Specification

|                                                    |                                                                                    |
|----------------------------------------------------|------------------------------------------------------------------------------------|
| Connectors                                         | 1* USB 2.0 Type-B Input                                                            |
|                                                    | 2* DMX Input (RJ45 port)                                                           |
|                                                    | 2* SPI Output (3 Pin Phoenix)                                                      |
| ESD Protection                                     | Resettable fuse per port.                                                          |
| Surge Protection                                   | Yes (all ports)                                                                    |
| Other Protection                                   | Diode & Resettable fuse to block stray power on the data line in fault situations. |
| IP rating                                          | IP20                                                                               |
| LED indicator                                      | Yes                                                                                |
| Input protocol                                     | USITT DMX512-A                                                                     |
| Data output type                                   | SPI. See website for all supported protocols                                       |
| Maximum output channels                            | 2 universes (1024ch) duplicated on both ports.                                     |
| Max. output refresh rate                           | 40FPS                                                                              |
| Latency                                            | 5 milliseconds                                                                     |
| Input voltage                                      | 5 – 48V DC (Via USB/Either output port VCC terminal)                               |
| Max power draw                                     | 1.5W                                                                               |
| Max. Rated Current per screw terminal (VCC / VCC0) | 10A                                                                                |
| Configuration software                             | PRO-MANAGER                                                                        |
| Firmware updates                                   | PRO-MANAGER                                                                        |
| Show recording/upload                              | PRO-MANAGER                                                                        |
| Max. output refresh rate                           | 40FPS                                                                              |
| Environmental operating temperature                | -20°C to 50°C<br>-4°F to 122°F                                                     |
| Environmental operating humidity                   | 5- 95% (non-condensing)                                                            |
| Body material                                      | ABS plastic                                                                        |
| Mounting option                                    | DIN                                                                                |
| Unit weight                                        | 95g/ 0.21lbs                                                                       |
| Shipping dimensions                                | 140*140*40mm                                                                       |
| Shipping weight                                    | 0.22kg / 0.49lbs                                                                   |
| Warranty                                           | 3-year return to base manufacturer warranty                                        |

1) If supported by your 3<sup>rd</sup> party software.

## Certification



## RJ45 Pin for DMX Input

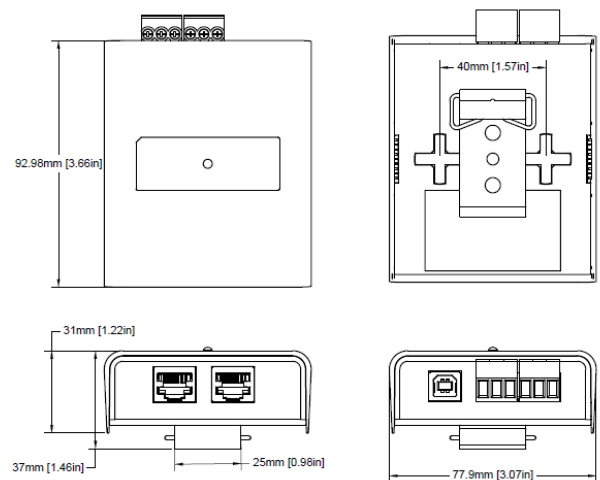
|                 |                 |                   |
|-----------------|-----------------|-------------------|
| ■ Pin 1: Data + | ■ Pin 2: Data - | ■ Pin 7/8: Ground |
|-----------------|-----------------|-------------------|

*Pin numbering in accordance with ANSI E1.27-2*

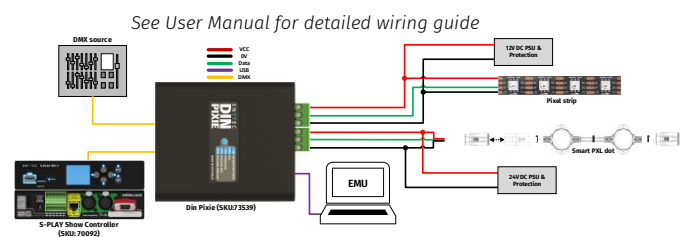
## Box contents

|                                      |                        |
|--------------------------------------|------------------------|
| ■ DIN PIXIE                          | ■ DIN Mounting Bracket |
| ■ USB Type A -> USB 2.0 Type B cable |                        |

## Physical Dimension



## Application diagram



## Safety

- This unit is intended for indoor use only. Do not expose to rain or moisture, doing this will void the warranty.
- Never plug this unit into a dimmer.
- Always be sure to mount this unit in an area that will allow sufficient ventilation.
- Label any Cat5/6 DMX connector and DO NOT connect to non-DMX port (eg Ethernet Switch). Connecting unlike systems could result in serious damage to Storm8 and equipment.

## Ordering information

For further support and to browse ENTTEC's range of products visit the [ENTTEC website](https://www.enttec.com).

| Item      | SKU   |
|-----------|-------|
| Din Pixie | 73539 |

# enttec.com

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Due to constant innovation, information within this document is subject to change.