ENTTEC

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
- 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.

Document Updated: Oct 2021

- 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.

ENTTEC

Specification

Specification		
	1* USB 2.0 Type-B Input	
Connectors	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 / VCCO)	10A	
Configuration software	PRO-MANAGER	
Firmware updates	PRO-MANAGER	
Show recording/upload	PRO-MANAGER	
Max. output refresh rate	40FPS	
Environmental	-20°C to 50°C	
operating temperature	-20°C to 50°C -4°F to 122°F	
operating temperature Environmental	-4°F to 122°F 5- 95%	
operating temperature Environmental operating humidity	-4°F to 122°F 5- 95% (non-condensing)	
operating temperature Environmental operating humidity Body material	-4°F to 122°F 5- 95% (non-condensing) ABS plastic	
operating temperature Environmental operating humidity Body material Mounting option	-4°F to 122°F 5- 95% (non-condensing) ABS plastic DIN	
operating temperature Environmental operating humidity Body material Mounting option Unit weight	-4°F to 122°F 5- 95% (non-condensing) ABS plastic DIN 95g/ 0.21lbs	
operating temperature Environmental operating humidity Body material Mounting option Unit weight Shipping dimensions	-4°F to 122°F 5- 95% (non-condensing) ABS plastic DIN	
operating temperature Environmental operating humidity Body material Mounting option Unit weight	-4°F to 122°F 5- 95% (non-condensing) ABS plastic DIN 95g/ 0.21lbs 140*140*40mm 0.22kg / 0.49lbs	
operating temperature Environmental operating humidity Body material Mounting option Unit weight Shipping dimensions	-4°F to 122°F 5- 95% (non-condensing) ABS plastic DIN 95g/ 0.21lbs 140*140*40mm	

¹⁾ If supported by your 3rd party software.

Certification CEKE®

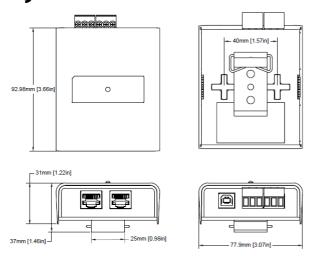
RJ45 Pin for DMX Input

	-	
■ Pin 1: Data +	■ Pin 2: Data -	■ Pin 7/8: Ground
Pin numbering in accorde	ince with ANSI F1.27-2	•

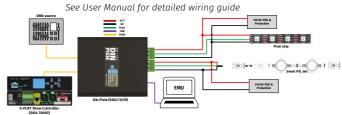
Box contents

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

Physical Dimension



Application diagram



- 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

Document Updated: Oct 2021

For further support and to browse ENTTEC's range of products visit the ENTTEC website.

Item	SKU
Din Pixie	73539

enttec.co

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA

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