

# 8PXA60-RGB-5V-W Datasheet

5V 60 pixel per metre RGB pixel strip with white PCB.



ENTTEC 8PXA60-RGB-5V-W is a 5V 60 LEDs per metre addressable RGB LED Pixel Strip designed for professional architectural and entertainment purposes, used to display smooth animated graphics achieving soft pastels and saturated colours on a large scale.

Cut and join into any conceivable shape.

The white PCB makes it perfectly suited for installing in extrusions and lightboxes where it will contribute to reflecting as much light forward as possible.

It's 800 Kbps transmission rate and 8-bit colour depth means graphics and animations are played back smoothly and consistently.

At ENTTEC, manufacturing quality and attention to detail is paramount. We always use thicker 3oz copper PCB to offer more durability, better heat dissipation and reduced voltage drop when compared to other LED strips available on the market. This in combination with the 5V operating voltage allows up to a 6m run with a single power injection.

## Feature

- **RGB, 3 in 1 full colour LED pixel strip.**
- **Premium flexible white 3oz thicker copper PCB's.**
- **Suitable for stage, entertainment and architectural applications.**
- **5V DC input supply voltage.**
- **60 LED/metre density.**
- **SK6812 IC chips compatible with WS2811 protocol.**
- **16.7 million possible shades.**
- **120-degree illumination.**
- **3M adhesive double side tape on the rear.**
- **Built-in data signal reshaping circuit.**
- **High LED density.**
- **Can be cut or joined at each copper tab.**
- **IP20 Indoor use only.**
- **Designed for use with ENTTEC pixel products.**
- **Maximum 10.5 Watts/Metre.**

## Specification

Connectors	2* 3Pin JST SM connectors (3A Max)
IP Rating	IP20
Input Voltage	5V
Watts/Metre (Max)	10.5 W
Lumens/Metre (Max)	259.4
Efficacy (Lm/Watt)	24.7
DMX Channels/Pixel	3
Beam Angle	120 °
Control Protocol	SK6812 IC chips (compatible with WS2811 protocol.)
PWM Frequency	1.2KHZ
Data Transmission Rate	800KHZ
Backup Data Line	No
Pixel Mapping Order	GRB
PCB Colour	White
PCB Width	10mm / 0.40"
Bend Radius (Min)	30mm / 1.2"
Spacing Between Cuttable Sections	16.6mm / 0.66"
Environmental Operating Temperature	0°C to 50°C 32°F to 122°F
Environmental Operating Humidity	5- 95% (non-condensing)
Weight (5m Roll)	0.115Kg / 0.254lbs
Shipping Dimensions (Single Roll)	240 * 215 * 16mm 9.45 * 8.47 * 0.63"
Shipping Weight (Carton of 5 Rolls)	0.80Kg / 1.76lbs
Shipping Dimensions (Carton of 5 Rolls)	260 * 225 * 93mm 10.24 * 10.04 * 3.66"
Warranty	1 year return to base manufacturer warranty

## Box Contents

- 1\* 5m 8PXA60-RGB-5V-W reel
- 1\* 3Pin JST SM connector (3A max)

## Connections

3PIN JST SM Connector:

- GND: Ground
- DO/DI: Data Out/Data In
- 5V

Visit the ENTTEC knowledgebase for wiring guides.

## Certification



## Maximum Run Length

Colour and lumen output will be affected if maximum length is exceeded. Test conducted at maximum brightness using 5-12 volt driver. **Note:** Maximum length of pixel strip run is limited by maximum universes of data.

POWER INJECTION	LED PER METRE	MAXIMUM LENGTH	
		RED, GREEN, BLUE	ALL ON
SINGLE	60	6m	3m
DUAL	60	10m	5m

## Safety

- Ensure all cabling is rated to handle the current of each pixel strip section. ENTTEC recommend separate wiring soldered directly to the strip, to substitute the original JST SM connector for sections exceeding 3A current consumption.
- Make all connections and ensure your installation is appropriately fused before powering it.
- Handle with care and adhere to the LED Pixel Strip instruction sheet.
- Pixel strips produce heat; ensure proper thermal management by attaching to a thermally conductive surface and providing 150mm / 6" for convection.
- This product is intended for indoor use only. Do not expose to moisture, doing so will void the warranty.
- Never plug this product into a dimmer.

## Ordering Information

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

Item	SKU
RGB PIXEL STRIP 60 LED/ METRE 5V – 5-METRE ROLL WHITE	8PXA60-RGB-5V-W

# enttec.com

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