

# PixLite® R2F-S

## Long Range Receiver



DATASHEET

### KEY FEATURES

- Receive Data up to 300m from Transmitter
- Up to 12 Universes of Clocked or Data-Only Pixels
- Power In and Fuse Good LED Indicators
- Electrical Fault Protection on all Ports
- Compact Form Factor

Made in Australia

5 Year Warranty



ADVATEK  
LIGHTING

# PixLite® R2F-S

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### PRODUCT OVERVIEW

The PixLite R2F-S is a pixel LED controller that's built to last and has all the protection one needs for peace of mind with professional installations.

Paired with a PixLite T8 controller, the PixLite R2F-S receives differential (long distance) data and converts it into a pixel ready signal. Perfect for any professional installation, particularly when the LEDs will be separated by some distance.

### A CLOSER LOOK AT THE RECEIVER

#### 2 FULL PIXEL OUTPUTS

2 individually fused outputs suitable for clocked or data-only pixel LEDs (see next page for details).

#### FAULT PROTECTION

Features electrical fault protection on all inputs and all pixel output lines, resulting in higher reliability and less equipment failures over time. Each output also includes a 7.5A mini blade fuse which will help protect the pixels and power supply in a fault condition, as well as keeping the installation safe. See details on next page.

#### SMALL FORM FACTOR

Compact, lightweight, slimline unit designed for mounting in tight spaces

#### QUICK CONNECT POWER

High current quick connect clamp connector for fast and reliable power connection

#### CONTENTS

PixLite R2F-S

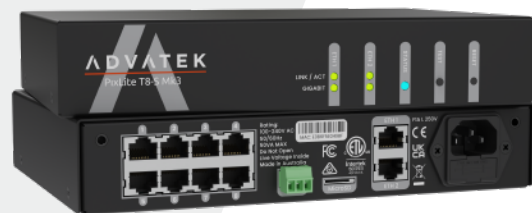
Installation Guide

#### CERTIFICATIONS



#### COMPATIBLE TRANSMITTERS

PixLite T8-S Mk3

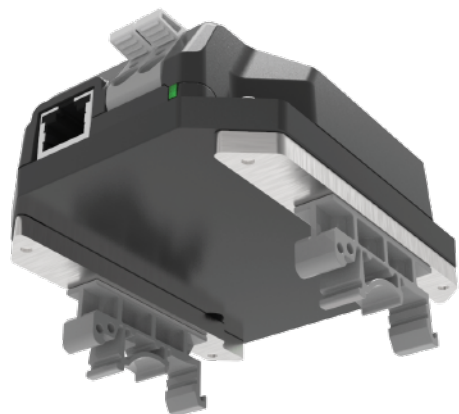


PixLite T16X-S Mk3



#### OPTIONAL ACCESSORIES

DIN Rail Mount Kit (Suits Single R2F-S, R4D-S, E4-S, E16-S)



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### SPECIFICATIONS

#### PHYSICAL

Pixel Outputs	2 x Powered
Data Input (From PixLite Transmitter)	1 x RJ45
Dimensions (excluding connectors)	95 x 78 x 33mm
Weight	0.2kg
Enclosure	High Strength ABS - Black
Mounting	Flat surface, DIN rail (optional accessory)

#### FAULT PROTECTION

Electrostatic Discharge (ESD)	All ports protected
Power Input	Reverse polarity protection
Data Input	+/- 24V DC fault protection
Pixel Output Clock/Data	+/- 24V DC fault protection
Pixel Output Power	Over Current and Short Circuit Protection

#### THERMAL

Storage Temperature	-20°C to +55°C
Ambient Operating Temperature	-20°C to +55°C

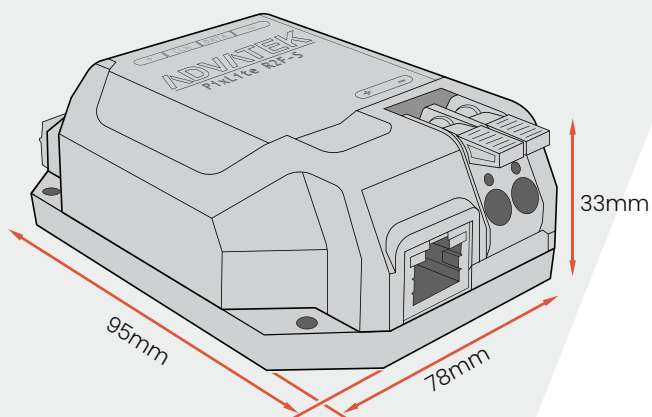
#### PIXEL DATA

#### EXPANDED MODE DISABLED

(Limits are set by the configuration of the transmitter)

Pixel Outputs	2
RGB Pixels per Output	1020
RGBW Pixels per Output	768
Universes per Pixel Output	6
Total Pixel Universes	12

#### OVERALL DIMENSIONS



#### POWER

Input Power	5V - 24V DC
Per Output Current Limit	7.5A (Mini Blade Fuse)
Total Current Limit	15A

#### CERTIFICATIONS & MARKS

North America	ETL Listing (Equivalent to UL Listing)
Europe	CE
North America	FCC
Canada	ICES3
Australia & New Zealand	RCM
United Kingdom	UKCA

#### TESTING STANDARDS

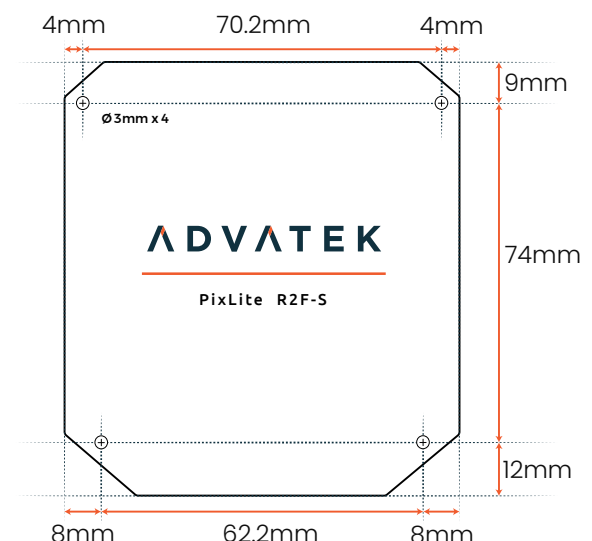
Audio/Video & ICTE - Safety Requirements	UL 62368-1
Radiated & Conducted Emissions	EN 55032 & FCC Part 15
Immunity for ITE	EN 55024
Restriction of Hazardous Substances	RoHS 3 + DD 2011/65/EU + 2017/2102/EU + 2015/863/EU

#### INSTALLATION

Refer to installation instructions in the Product User Manual for acceptable use and storage requirements.

Standard	Indoors Only
With Conformal Coating	May be installed outdoors when installed inside a weatherproof enclosure

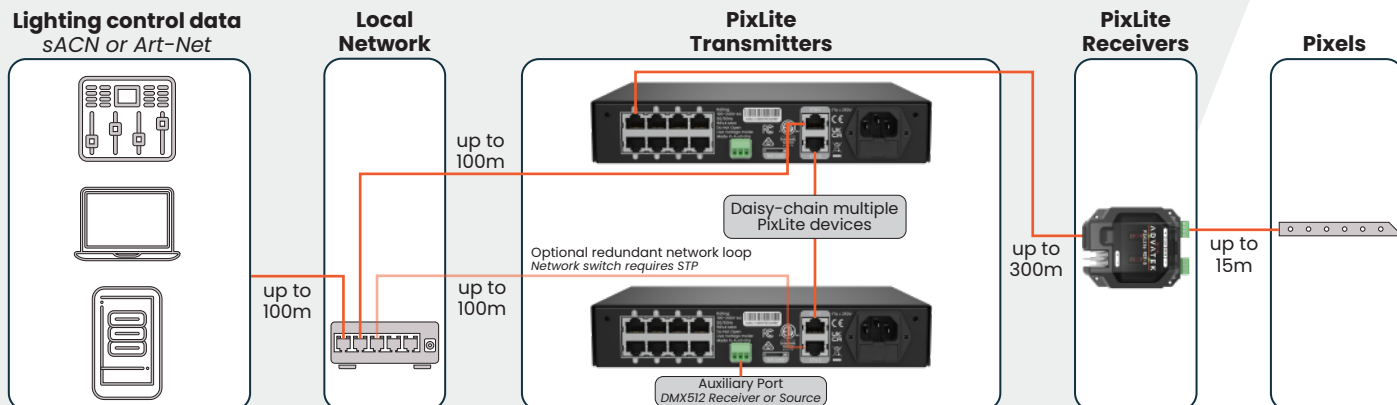
#### MOUNTING DIMENSIONS



# PixLite® R2F-S

## Long Range Receiver

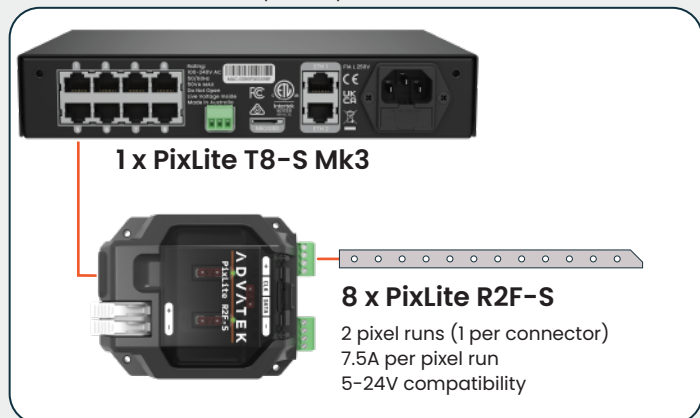
### TYPICAL WIRING DIAGRAM



### COMPATIBLE LONG RANGE SYSTEMS

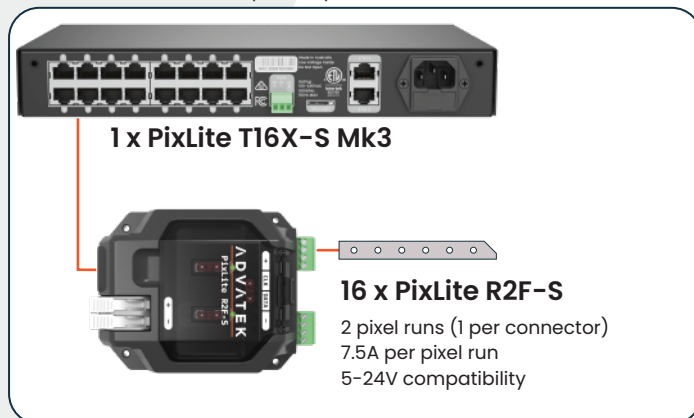
#### Expanded Mode Disabled

Any pixel type  
1020 RGB / 768 RGBW pixels per run



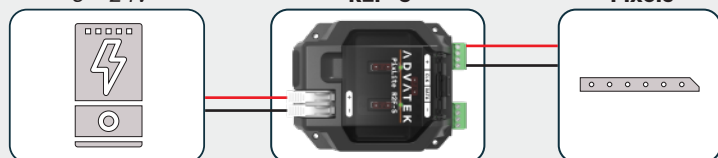
#### Expanded Mode Enabled

Data-only pixel types  
510 RGB / 384 RGBW pixels per run



### POWERING PIXELS

#### DC Power Supply 5 - 24V



### ORDER CODES

PixLite R2F-S ..... PIXR2FS  
 PixLite R2F-S with Conformal Coating ..... PIXR2FS-CC  
 DIN Rail Mount Kit (Suits Single R2F-S, R4D-S, E4-S, E16-S) .... MNT0101

### CONNECTIONS TO PIXELS

#### Connected to T8

Normal Usage	Expanded Mode	Differential DMX512	Select Pixels <sup>2</sup>
+	+	+	+
Clock <sup>1</sup>	Data 1	DMX D-	Backup
Data	Data 2	DMX D+	Data
-	-	-	-

#### Connected to T16X

Expanded Mode
+
Not Used
Data
-

<sup>1</sup> For pixels that do not have a clock input, this pin is not connected.

<sup>2</sup> Many pixels with a backup data input do not require it to be connected to the PixLite as shown. See pixel glossary on the Advatek website to confirm pixels which require a backup connection to the PixLite.