

PixLite® T8-S Mk3

Long Range Pixel Transmitter



DATASHEET

Made in Australia
5 Year Warranty

KEY FEATURES

Send Data up to 300m to Receivers

96 Universes of Art-Net or sACN

Over 80+ Pixel Protocols Supported

microSD Card Slot for Advatek SHOWTime™

Dual Gigabit Ethernet Ports

Auxiliary Port for DMX512 In/Out

Configure Using Any Web Browser or

Advatek Assistant 3 Software

Electrical Fault Protection on All Ports



ADVATEK
LIGHTING

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PRODUCT OVERVIEW

The **PixLite T8-S Mk3** is a powerful pixel LED controller built upon Advatek's 3rd generation PixLite Mk3 processor. The feature set of this processor are too significant to fit here, explore in the [PixLite Mk3 Processor Datasheet](#).

The **PixLite T8-S Mk3** transmits up to 96 universes of data to 8 PixLite R2/R4 receivers at distances up to 300m. Perfect for any professional installation where the LEDs will be separated by some distance.

A CLOSER LOOK AT THE TRANSMITTER

DUAL GIGABIT ETHERNET PORTS

Simplify your network infrastructure by daisy chaining PixLite controllers together. Maintain high network reliability by optionally connecting a redundant Ethernet line to any loop with a suitable switch.

Ethernet ports are fully equipped with a Universe Data Hardware Firewall to ensure your PixLite can constantly perform at its peak.

SHOWTime

SHOWTime™ unleashes the potential of Advatek PixLite® Mk3 devices to independently drive light shows without a computer or any source of live data.

SHOWTime™ allows users to record and play back pixel shows from the PixLite T8-S Mk3 using the inbuilt microSD slot. Design your own breathtaking pixel shows, record them directly onto the microSD card and play them back as many times as you wish.

SHOWTime™ also unlocks the ability to create up to 25 powerful triggers and use advanced intensity controls to enable true standalone behavior and enhance live environments.v

AUXILIARY PORT

Versatile RS485 Auxiliary port can be used as either an input or an output.

As an output, connect DMX512 devices to the port and control them via sACN or Art-Net. As an input, connect a DMX512 source directly to the PixLite and use DMX512 as the data source for your pixels, or as a trigger source, or as a live intensity data source.

FAULT PROTECTION

Features electrical fault protection on all ports resulting in higher reliability and fewer equipment failures. See details on next page.

CERTIFICATIONS



5 YEAR WARRANTY

For your absolute peace of mind, all Mk3 products come with a 5-year warranty. All products need to be used and installed in accordance with their designed purpose and operating environment. Please register your product on our website.

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SPECIFICATIONS

PHYSICAL

RJ45 Data Outputs	8
Ethernet Ports	2 x 10/100/1000 Mbit/s
microSD Card Slot	1
Auxiliary Port	1 x RS485 Input/Output
Dimensions (inc. connectors)	169 x 221 x 42mm
Weight	1.1kg
Enclosure	Aluminium
Mounting	Flat surface & 19" data rack mount

CERTIFICATIONS & MARKS

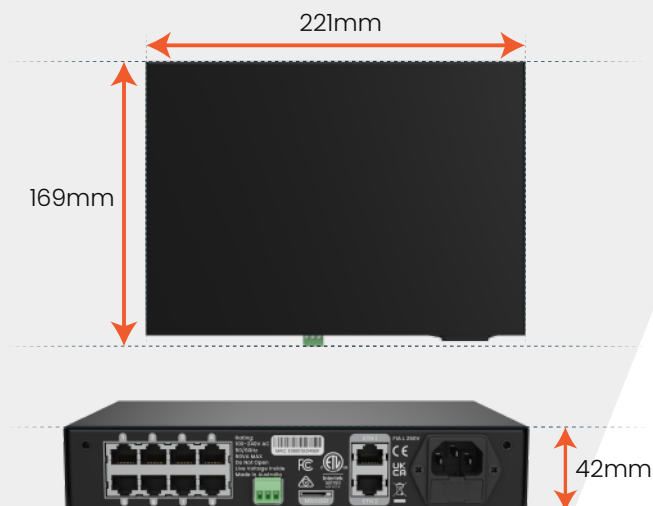
North America	ETL Listing (Equivalent to UL Listing)
Europe	CE
North America	FCC
Canada	ICES3
Australia & New Zealand	RCM
United Kingdom	UKCA

PIXEL DATA

EXPANDED MODE DISABLED / ENABLED

Pixel Outputs	16	/	32
RGB Pixels per Output	1020	/	510
RGBW Pixels per Output	768	/	384
Universes per Pixel Output	6	/	3
Total Pixel Universes	96	/	96

OVERALL DIMENSIONS



POWER

Input Power	100V-240V AC
AC Fuse	1A M205

THERMAL

Ambient Operating Temperature	-10°C to +60°C
Storage Temperature	-10°C to +60°C

FAULT PROTECTION

Electrostatic Discharge (ESD)	All ports protected
Auxiliary Port	+/- 48V DC fault protection
Pixel Data Outputs	+/- 48V DC fault protection (signal to common)

TESTING STANDARDS

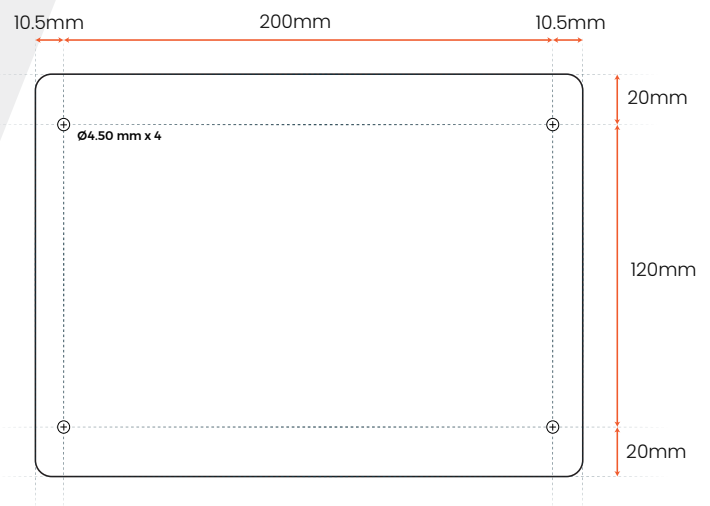
Audio/Video & ICTE - Safety Requirements	UL 62368-1
Radiated & Conducted Emissions	EN 55032 & FCC Part 15
Multimedia Immunity	EN 55035
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations and Flicker Emissions	EN 61000-3-3
RoHS	RoHS 2 + DD (EU) 2015/863

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

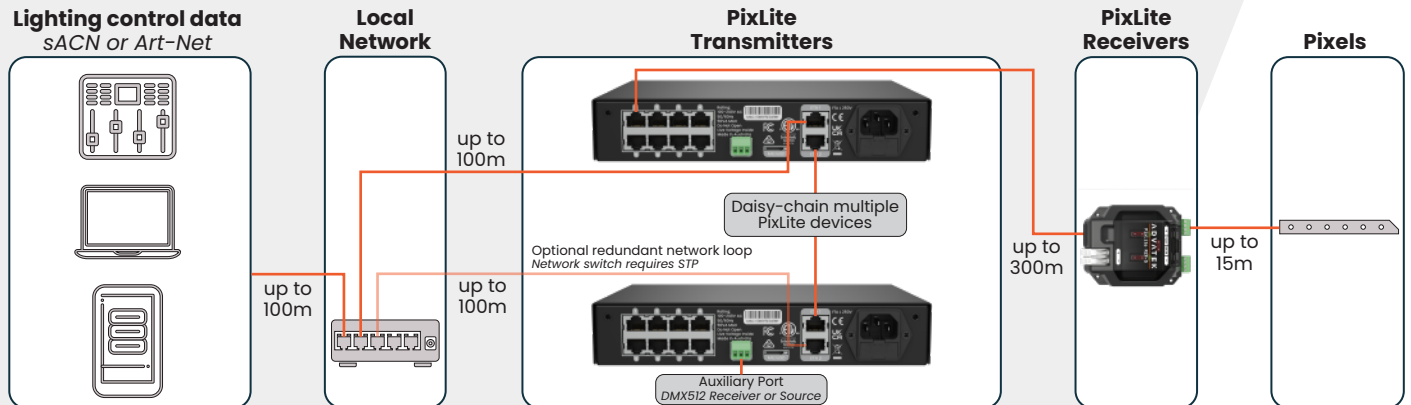
MOUNTING DIMENSIONS



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TYPICAL WIRING DIAGRAM



COMPATIBLE LONG RANGE SYSTEMS

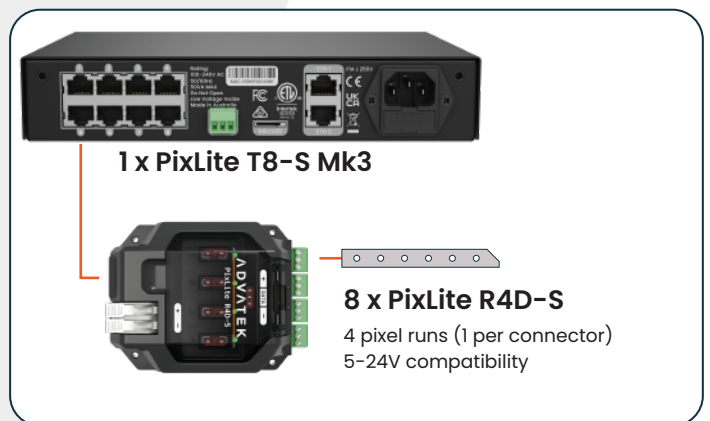
Expanded Mode Disabled

Any pixel type
1020 RGB / 768 RGBW pixels per run



Expanded Mode Enabled

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



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OPTIONAL ACCESSORIES

FLAT SURFACE FRONT MOUNT KIT (SUITS T8-S, T16X-S)



19" DATA RACK MOUNT KIT (SUITS SINGLE T8-S)

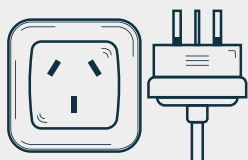


19" DATA RACK MOUNT KIT (SUITS DOUBLE T8-S)

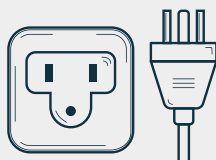


POWER SOCKET OPTIONS

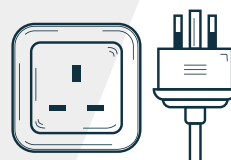
Type I



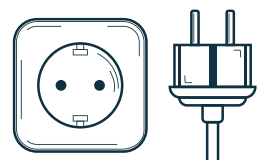
Type B



Type G



Type F



PRODUCT ORDER CODES

ITEM	CONFORMAL COATING	VARIANT	LOCATION	ORDER CODE
PixLite T8-S Mk3		Type I	Australia	PIXT8S3AU
PixLite T8-S Mk3		Type B	United States	PIXT8S3US
PixLite T8-S Mk3		Type G	United Kingdom	PIXT8S3UK
PixLite T8-S Mk3		Type F	Europe	PIXT8S3EU
PixLite T8-S Mk3	Yes	Type I	Australia	PIXT8S3AU-CC
PixLite T8-S Mk3	Yes	Type B	United States	PIXT8S3US-CC
PixLite T8-S Mk3	Yes	Type G	United Kingdom	PIXT8S3UK-CC
PixLite T8-S Mk3	Yes	Type F	Europe	PIXT8S3EU-CC

ACCESSORY ORDER CODES

ITEM	ORDER CODE
Flat Surface Front Mount Kit (Suits Single T8-S, T16X-S)	MNT0301
19" Data Rack Mount Kit (Suits Single T8-S)	MNT0201
19" Data Rack Mount Kit (Suits Double T8-S)	MNT0202