PixLite® A4-S Mk3
Pixel Controller

Made in Australia

5 Year Warranty

KEY FEATURES

24 Universes of Art-Net or sACN

4 Powered Pixel Outputs

Over 70+ 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

Smart Electronic Fuses on Pixel Outputs

Electrical Fault Protection on All Ports

Current Measuring on all Pixel Outputs

ADVATEK
L I G H T I N G

PRODUCT OVERVIEW

The PixLite A4-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 A4-S Mk3 drives up to 6 universes of data on each of its 4 outputs for a total of 24 universes of LED pixel control via its easily accessible and removable screw terminal blocks. Each pixel output handles a sizable current load and is fully equipped with Smart Electronic Fusing, so you'll never have to replace a fuse again.

A CLOSER LOOK AT THE CONTROLLER

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.

SH▶WTime

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 A4-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.

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.

POWER MANAGEMENT

All pixel outputs are capable of up to 7A of pass through current and are equipped with Smart Electronic Fuses that will trip when over-current is detected, and automatically attempt to re-enable power output, removing the need to replace a physical fuse.

The solid aluminium base of the enclosure doubles as a heatsink, dissipating heat generated from high current installations and maintaining device integrity in high ambient temperatures.

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

SPECIFICATIONS

PHYSICAL

Ethernet Ports	2 x 10/100/1000 Mbit/s
microSD Card Slot	1
Auxiliary Port	1 x RS485 Input/Output
Pixel Outputs	4 x Powered
Dimensions (inc. connectors)	126.5 x 119 x 42mm
Weight	0.3kg
Enclosure	Aluminium + ABS
Mounting	Wall & Din-Rail Mountable

FAULT PROTECTION

Electrostatic Discharge (ESD)	All ports protected
Power Input	Reverse polarity protection
Auxiliary Port	+/- 48V DC fault protection
Pixel Output Clock/Data	+/- 36V DC fault protection
Pixel Output Power	Self-resetting over current and short circuit protection

CERTIFICATIONS & MARKS

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

POWER

Input Power	5V - 24V DC
Per Output Current Limit	7A
Total Current Limit	28A

THERMAL

Ambient Operating Temperature	-20ºC to +70ºC

PixLite A4-S Mk3 Derating Curve

(Graph: AVERAGE CURRENT (A) on y-axis from 0 to 30, AMBIENT TEMPERATURE (°C) on x-axis from -20 to 80. Curve is flat at 28A from -20 to about 60°C, then declines to about 14A at 70°C, then drops to 0.)
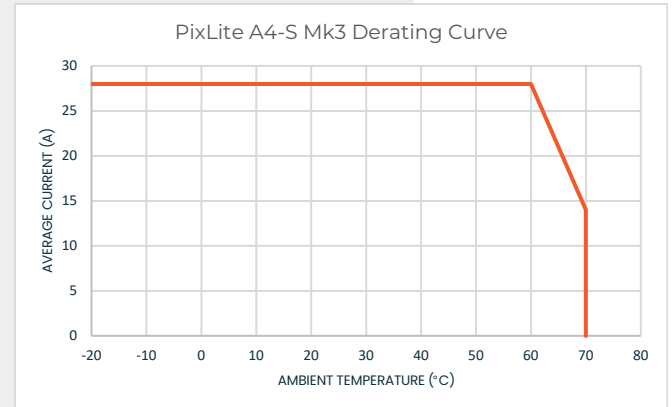
TESTING STANDARDS

Audio/Video & ICTE - Safety Requirements	UL 62368-1
Radiated & Conducted Emissions	EN 55032 & FCC Part 15
Multimedia Immunity	EN 55035
RoHS	RoHS 2 + DD (EU) 2015/863

PIXEL DATA

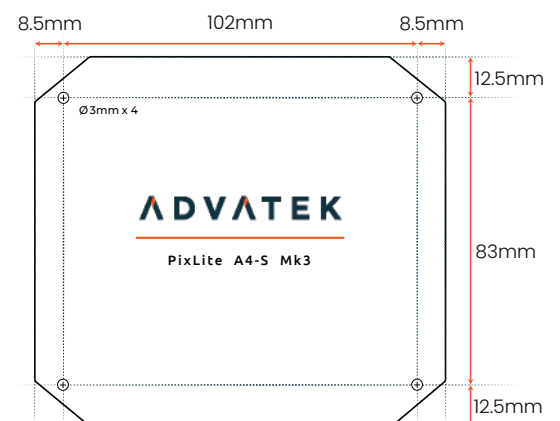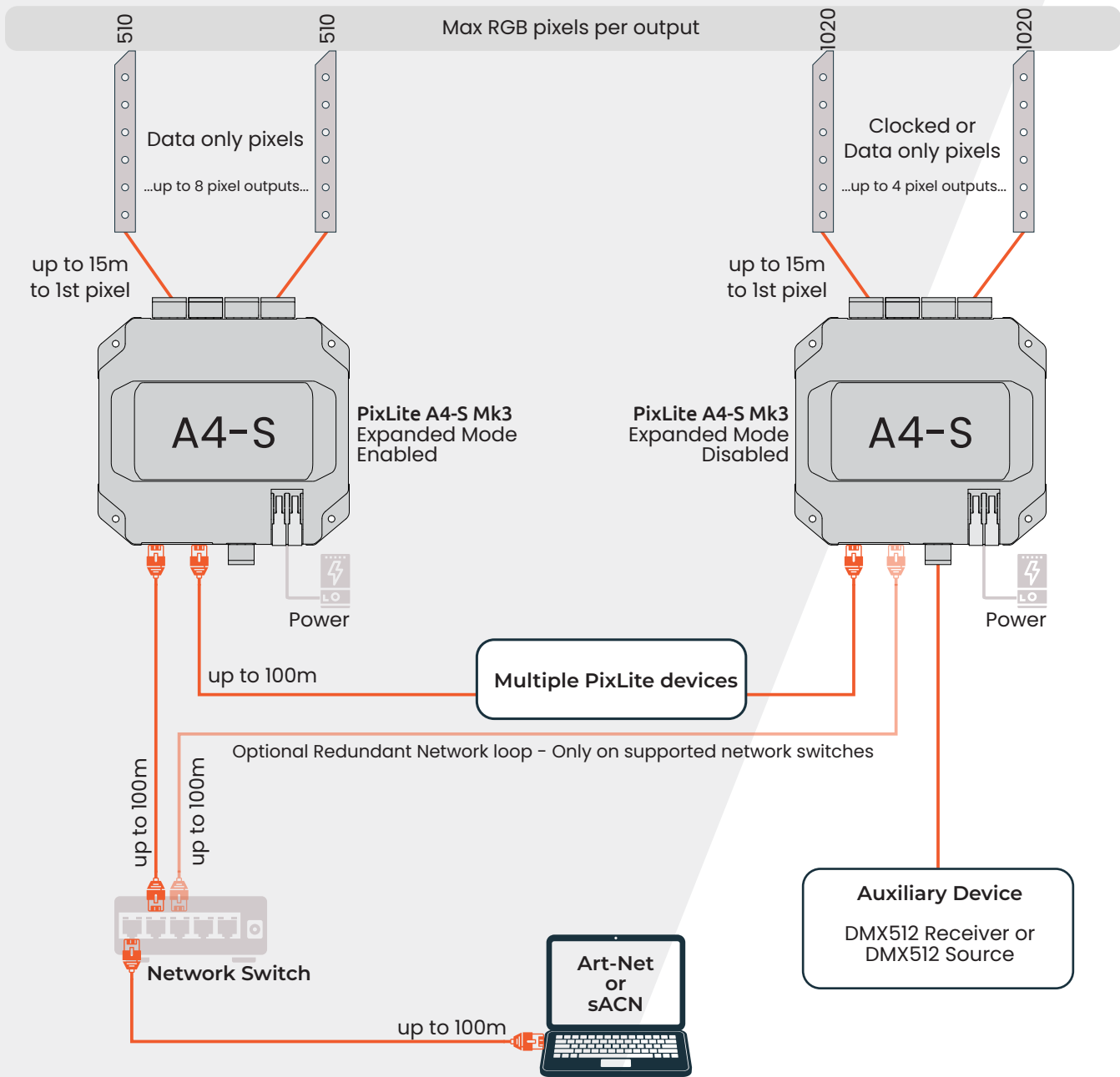|	NORMAL MODE	EXPANDED MODE
Pixel Outputs	4	8
RGB Pixels per Output	1020	510
RGBW Pixels per Output	768	384
Universes per Pixel Output	6	3
Total Pixel Universes	24	24

OVERALL DIMENSIONS

119mm

126.5mm

42mm

MOUNTING DIMENSIONS

8.5mm   102mm   8.5mm

12.5mm

Ø3mm x 4

ADVATEK

PixLite A4-S Mk3

83mm

12.5mm

TYPICAL WIRING DIAGRAM

510   510   Max RGB pixels per output   1020   1020

Data only pixels

...up to 8 pixel outputs...

Clocked or
Data only pixels

...up to 4 pixel outputs...

up to 15m
to 1st pixel

up to 15m
to 1st pixel

A4-S

A4-S

PixLite A4-S Mk3
Expanded Mode
Enabled

PixLite A4-S Mk3
Expanded Mode
Disabled

Power

Power

up to 100m

Multiple PixLite devices

Optional Redundant Network loop - Only on supported network switches

up to 100m   up to 100m

Auxiliary Device

DMX512 Receiver or
DMX512 Source

Network Switch

**Art-Net
or
sACN**

up to 100m

CONNECTIONS TO PIXELS

Pixels .... Clocked
Expanded Mode .... Disabled

Positive
Clock
Data
Gnd

Pixels .... Data Only
Expanded Mode .... Disabled

Positive

Data
Gnd

Pixels .... Data Only
Expanded Mode .... Enabled

Positive
Data 1
Data 2
Gnd

ADVATEK
LIGHTING
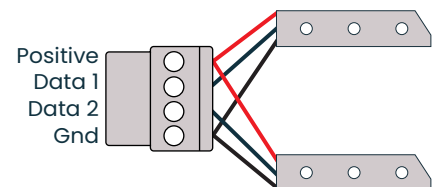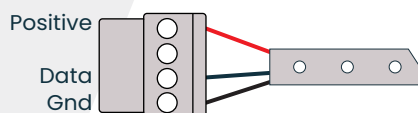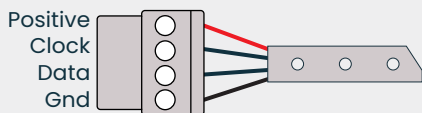
OPTIONAL ACCESSORIES

Din-Rail Mounting Bracket
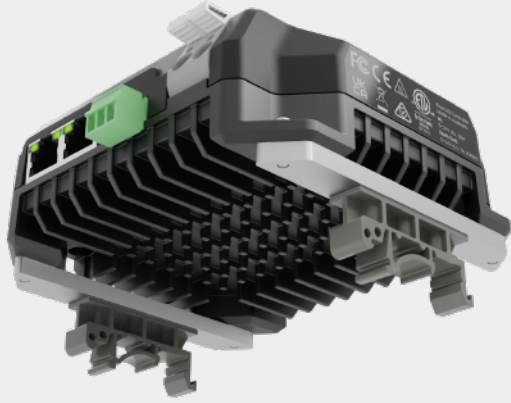
ORDER CODES

PixLite A4-S Mk3 .... PIXA4S3

Din-Rail Mounting Bracket MNT0102