PixLite® E16-S Mk3
Pixel Controller
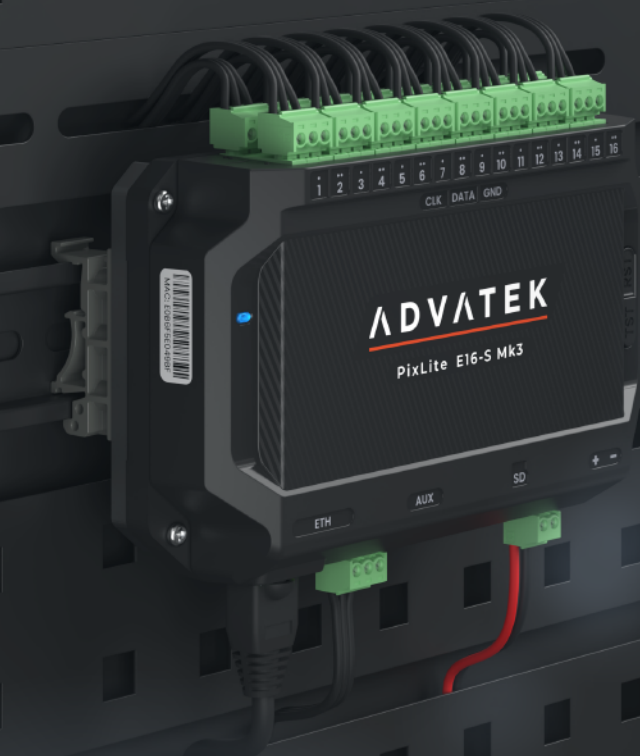
KEY FEATURES

96 Universes of Art-Net or sACN

16 Non-Powered Pixel Outputs

Over 50+ Pixel Protocols Supported

microSD Card Slot for Record & Playback*

Auxiliary Port for DMX512 In/Out

Configure Using Any Web Browser or
Advatek Assistant 3 Software

Electrical Fault Protection on All Ports

Made in Australia

5 Year Warranty

ADVATEK

LIGHTING

PRODUCT OVERVIEW

The PixLite E16-S Mk3 is an economical, but 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 E16-S Mk3 drives up to 6 universes of data on each of its 16 outputs for a total of 96 universes of LED pixel control. The easily accessible and removable screw terminal blocks each have three pins [Clock | Data | Ground], which is suitable for installations where pixel power is not routed through the pixel controller.

A CLOSER LOOK AT THE CONTROLLER

RECORD AND PLAYBACK*

Add your own microSD card to record pixel shows for stand-alone playback.

BUDGET FRIENDLY

Lower the cost of your installation with the removal of some features that are standard on most of the PixLite Mk3 range, like powered pixel outputs, smart electronic fuses, dual gigabit Ethernet ports and universe data hardware firewall.

FAULT PROTECTION

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

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.

Also use a DMX512 source as an input to the device, to trigger other operational behaviour*.

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.

Support for these features to be released in an upcoming firmware update

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Pixel Controller

SPECIFICATIONS

PHYSICAL

Ethernet Ports	1 x 10/100 Mbit/s
microSD Card Slot	1
Auxiliary Port	1 x RS485 Input/Output
Pixel Outputs	16 x Non-Powered
Dimensions (inc. connectors)	114.5 x 149.5 x 35.5 mm
Weight	0.2kg
Enclosure	ABS
Mounting	Wall & Din-Rail Mountable

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
Maximum Power Consumption	3.5W

THERMAL

Ambient Operating Temperature	-20°C to +70°C

FAULT PROTECTION

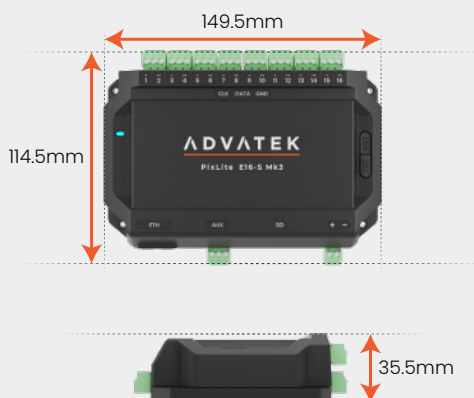|	
Electrostatic Discharge (ESD)	All ports protected
Power Input	Reverse polarity protection
Auxiliary Port	+/- 48V DC fault protection
Pixel Output Clock/Data	+/- 36V DC fault protection

TESTING STANDARDS

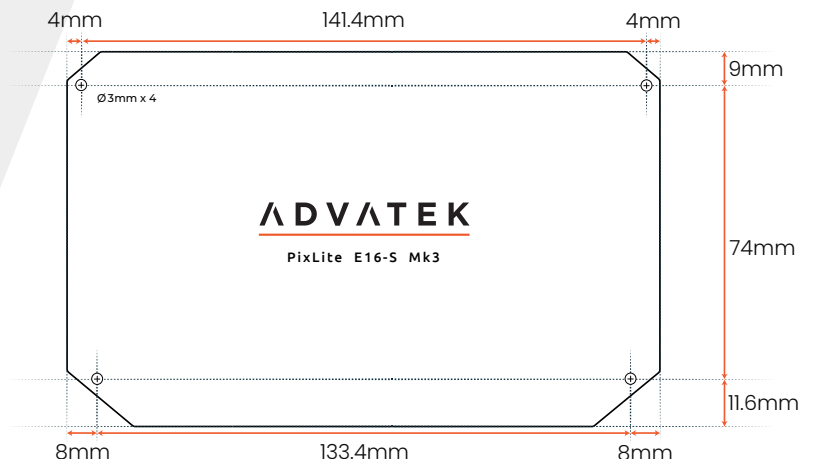|	
Audio/Video & ICTE - Safety Requirements	UL 62368-1
Radiated & Conducted Emissions	EN 55032 & FCC Part 15
Multimedia Immunity	EN 55035
RoHS	RoHS 2 + DD (EU) 2015/863

PIXEL DATA

	NORMAL MODE	EXPANDED MODE
Pixel Outputs	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

149.5mm
114.5mm
35.5mm

MOUNTING DIMENSIONS

4mm · 141.4mm · 4mm
9mm
Ø3mm x 4
74mm
11.6mm
8mm · 133.4mm · 8mm

ADVATEK
LIGHTING

TYPICAL WIRING DIAGRAM

510 510 | Max RGB pixels per output | 1020 1020

Data only pixels

...up to 32 pixel outputs...

Clocked or
Data only pixels

...up to 16 pixel outputs...

up to 15m
to 1st pixel

up to 15m
to 1st pixel

E16-S

E16-S

Power

Power

PixLite E16-S Mk3
Expanded Mode
Enabled

PixLite E16-S Mk3
Expanded Mode
Disabled

up to 100m   up to 100m

Network Switch

**Art-Net
or
sACN**

up to 100m

Auxiliary Device

DMX512 Receiver or
DMX512 Source
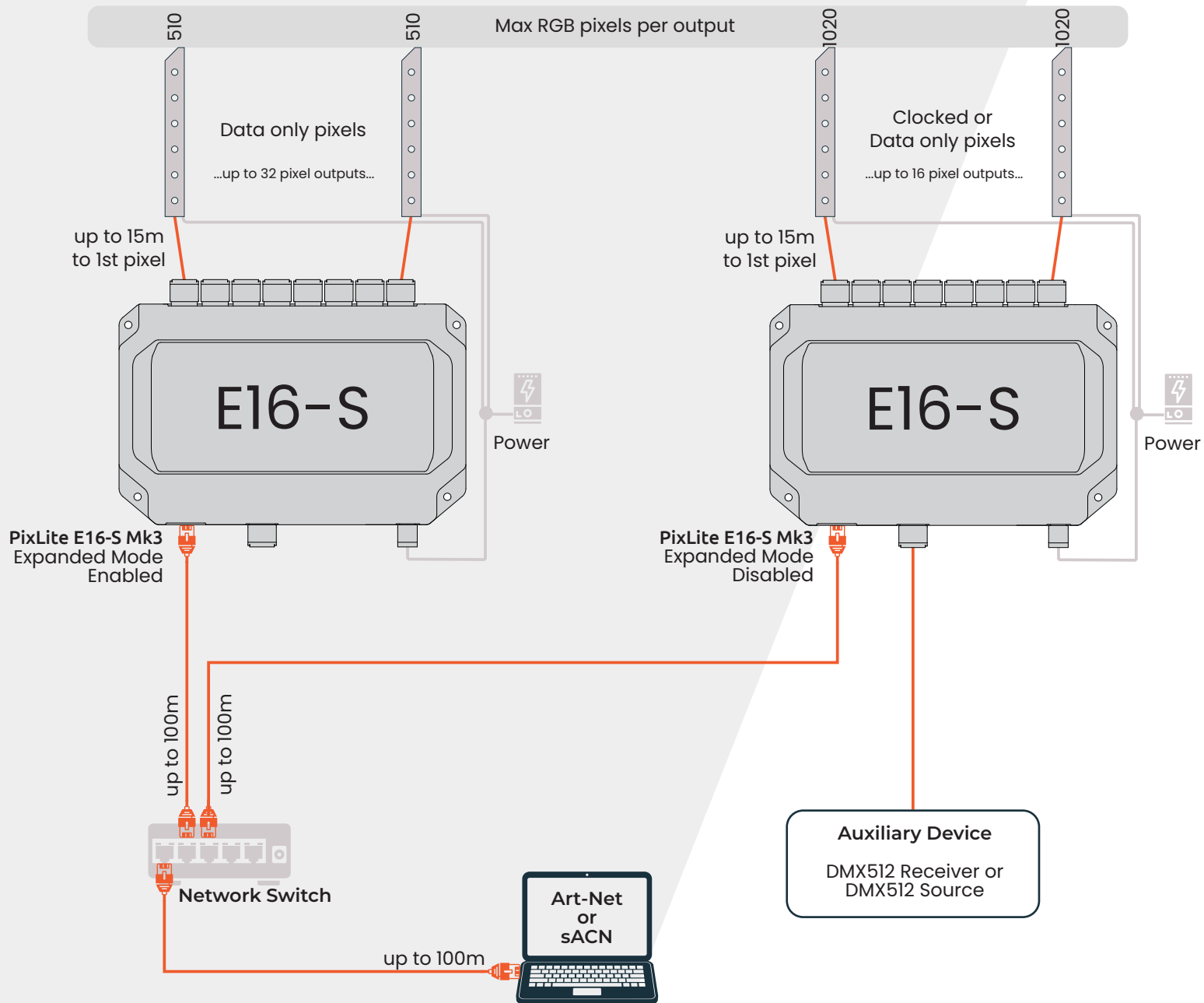
CONNECTIONS TO PIXELS

Pixels .... Clocked	Pixels .... Data Only	Pixels .... Data Only
Expanded Mode .... Disabled	Expanded Mode .... Disabled	Expanded Mode .... Enabled

Clock
Data
Gnd

Power

Data
Gnd

Power

Data 1
Data 2
Gnd

Power

ΛDVΛTEK
L I G H T I N G
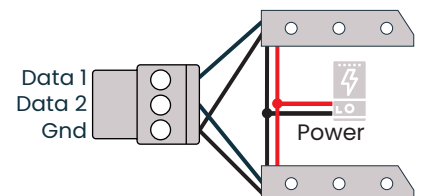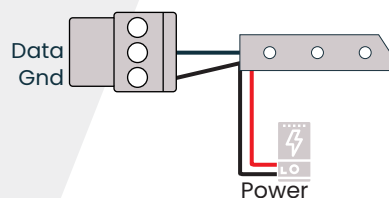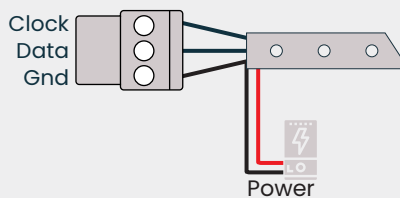
OPTIONAL ACCESSORIES

Din-Rail Mounting Bracket
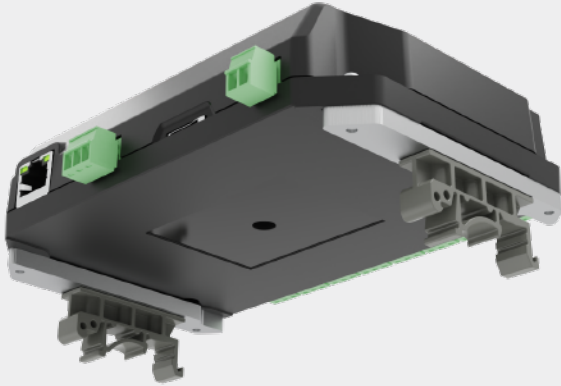
ORDER CODES

PixLite E16-S Mk3 .... PIXE16S3

Din-Rail Mounting Bracket MNT0101