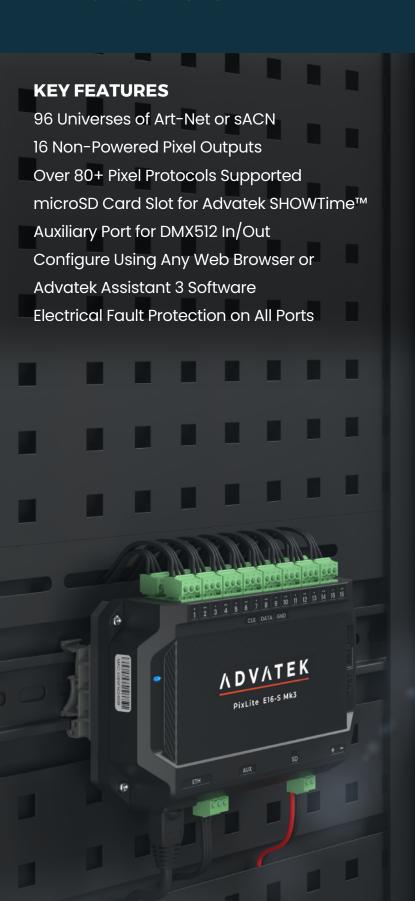
Pixel Controller





Pixel Controller

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



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 E16-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.

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, or as a trigger source, or as a live intensity data source.

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.



Pixel Controller

SPECIFICATIONS

PHYSICAL

Ethernet Ports 1 x 10/100 Mbit/s
microSD Card Slot1
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 Flat surface, DIN rail (optional accessory)

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

DISABLE	J / LIA	70	
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

POWER

Input Power	5V - 24V DC
Maximum Power Consumption	3.5W

THERMAL

Storage Temperature	20°C to +70°C
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	JL 62368-1
Radiated & Conducted Emissions EN 55032 & F	CC Part 15
Multimedia Immunity	EN 55035
Restriction of Hazardous Substances	RoHS 3 +
DD 2011/65/EU + 2017/2102/EU + 20	15/863/EU

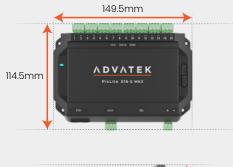
INSTALLATION

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

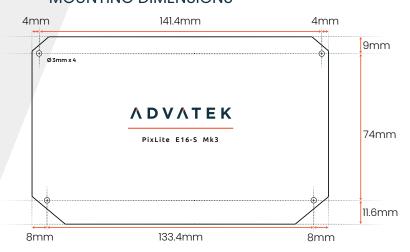
installed inside a weatherproof enclosure

OVERALL DIMENSIONS





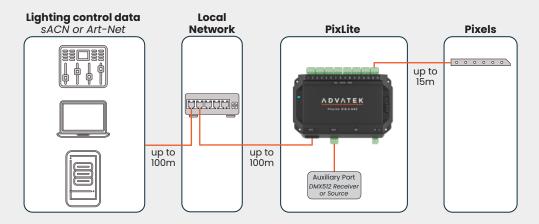
MOUNTING DIMENSIONS





Pixel Controller

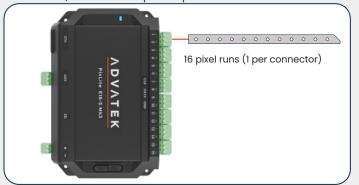
TYPICAL WIRING DIAGRAM



COMPATIBLE SYSTEMS

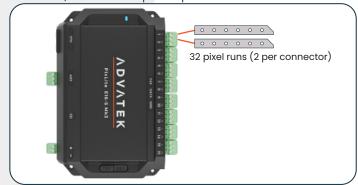
Expanded Mode Disabled

Any pixel type 1020 RGB / 768 RGBW pixels per run

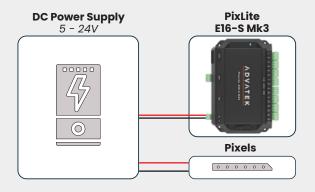


Expanded Mode Enabled

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



POWERING PIXELS

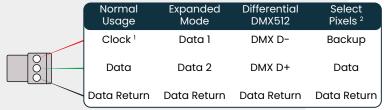


OPTIONAL ACCESSORIES

Din-Rail Mounting Bracket



CONNECTIONS TO PIXELS



ORDER CODES

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

2 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.

