



Node ePIXEL4



32 UNIVERSES OF SPI PIXEL DATA
VARIABLE FRAME RATE ARCHITECTURE™
PORT SYNCHRONIZED OUTPUTS
INTUATIVE GUI & ONBOARD FX ENGINE
WEB API & ADVANCED NETWORKING

Art
Net

120Hz
SPI

sACN

API

Node ePIXEL4 is a high-performance, quad-output eDMX-to-LED pixel converter engineered for the most demanding applications. The ePIXEL4 can transmit up to 32 universes @ 4096 pixels with exceptional stability and precision. Featuring 1024 pixels per port using a LumiOS proprietary Variable Frame Rate Architecture™, incredible refresh rates up to 120Hz is possible.

Built for robustness the all-metal chassis makes it an ideal solution for mobile entertainment, and commercial/architectural installation environments.

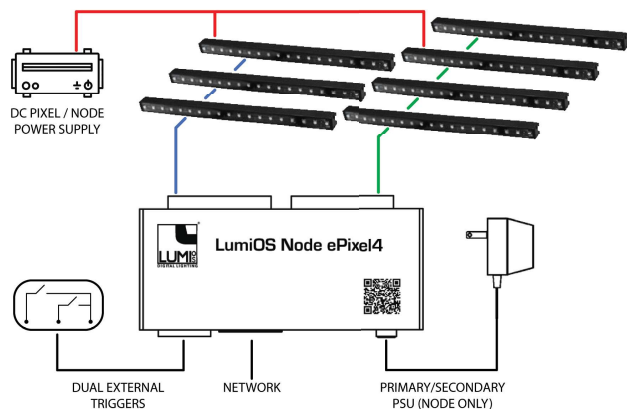
Optimized for rapid deployment, the ePIXEL4 supports truss mounting, rack mounting, and DIN rail mounting. It is compatible with industry-standard network protocols and with the most popular used SPI LED strip types.

An integrated localhost web interface provides a streamlined user experience, enabling effortless configuration and the creation of dynamic gradient effects via the built-in FX engine. Standalone operation is fully supported, with automatic playback on power-up—eliminating the need for external controls. Quick and easy user deployed updates is possible, and custom applications updates are feasible.

Designed with installers in mind, we include easy network daisy-chaining for scalable setups, protocol configuration, and versatile mounting solutions. Altogether, it delivers a sophisticated and dependable LED pixel control system tailored for small to large-scale complex projects.

System wide monitoring and extra features are available when using the optional LumiOS HUB.





FLEXIBLE REDUNDANCY

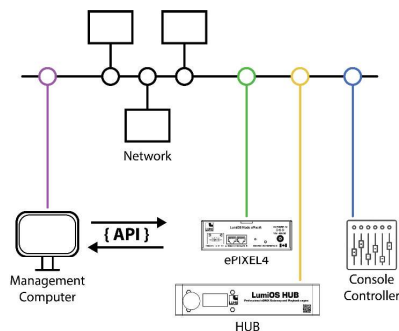
Pixel power supply placement and an additional DC input for Node power enables the most convenient or redundant configuration options.

- Power thru Node
- Power thru Pixels
- Optional Node DC backup

ADVANCED NETWORKING & API

Node PIXEL4 delivers advanced networking features, a fully documented web API, and an intuitive web user interface.

The optional HUB is available for monitoring, WiFi and AURA wireless connectivity, as well as expanded control interfacing using the available iOS/Android APPs.



TECHNICAL SPECIFICATIONS

CONNECTIVITY		PHYSICAL	
PIXEL / SPI	2x Locking 5-Pin Pheonix Type	Enclosure	Metal housing, 1/3 19" wide
Ethernet	2x Locking RJ45	Mounting	Truss, Rackmount, DIN
Contact Closure	2x triggers on 3-Pin Pheonix Type	Dimensions (W x D x H)	140 x 60 x 45 mm
Power	1x DC Power IN or DC to Outputs	Weight	
PIXEL FEATURES		NETWORK FEATURES	
Max Pixels	RGB - 5,440 px [1,360 /port] RGBW - 4,096 px [1,024 /port]	Ethernet Protocols	Art-Net™ [1-4] sACN ANSI E1.31
eDMX-Pixel Conversion	32 Universes (16,384 ch)	Ethernet Port Speed	10/100 Mbps
Data Output Type	SPI	Port Sensing	Yes
Max Frame Rate	120 fps	Split Managment	Yes
Max Power Thru Feed	100 W per port	VLAN Group Support	Yes
PROCESSING		OTHER	
Merge Engine	HTP/LTP	Power Input	12V-48V DC
Softpatch	Yes	Power Consumption	5W Maximum
Trigger System	Yes	Power Redundancy	Optional
ReRoute	Yes	Operating Temperature	-15 to +50°C
Profile Manager	Yes	Storage Temperature	-30 to +70°C
Snapshots	Yes	Humidity	5 - 95% RH (non-condensing)
Master/Limit	Proportional	Approvals	CSA Approved Supply
Monitoring	LumiOS HUB	IP Rating	IP20
Configuration	Built in Web server Documented Web API	Status LEDs	Ethernet: link/activity LED Power indicator LED

Designed and Engineered in



www.LUMIOSLED.com