

OCTO LITE – Datasheet

eDMX to SPI pixel controller converts up to 8 universes of SPI data in a compact 4-module DIN-rail form factor.



The ENTTEC OCTO LITE is a compact, and DIN-rail-compatible 8U pixel controller engineered for immediate Ethernet-to-SPI conversion. It efficiently processes up to 8 universes of Art-Net, sACN, and ESP over Ethernet, delivering 4 universes per output supporting LED fixtures with clock line.

Designed for maximum versatility, the OCTO LITE natively supports over 20 industry-standard pixel output protocols while also enabling custom protocol creation for specialised applications (refer to the Custom Protocol Creation Guide).

Equipped with dual Ethernet ports and Port Sync functionality, the OCTO LITE facilitates network chaining, optimising data distribution without additional hardware. The device can be powered directly from the same power source as the lighting fixture via the rear output port, simplifying installation and eliminating unnecessary additional wiring.

Built for reliability and ease of use, the OCTO LITE features an identity button for quick wiring verification and a wide 5-60V DC input range, ensuring compatibility with diverse LED fixture's power requirement. Encased in a slim 4-DIN module, it provides a robust yet space-efficient solution for professional lighting installations.

Features

- **Supports up to 8 universes of Art-Net, sACN, and ESP for pixel control.**
- **Extensive pixel output protocol support, including data and clock-based configurations.**
- **Custom pixel protocol adjustment and creation for specialised applications.**
- **Expandable networking via daisy-chain connectivity for optimized data distribution.**
- **DHCP and Static IP address support for flexible network integration.**
- **Grouping functionality to efficiently reduce input channel requirements.**
- **Port Sync ensures all ports stay synchronised, preventing inconsistencies and ensuring smooth operation.**
- **Versatile mounting options: surface or TS35 DIN rail compatibility. Accessory sold separately.**
- **Identify/Reset button enables quick wiring verification without requiring a network connection.**
- **User-friendly web interface for intuitive configuration and firmware updates.**

Note: OCTO does not provide power to lighting fixtures.

Connectors	2 x Network (RJ45)
	2 x Data Port (4Pin Screw Terminal)
	1 x Power Port (2Pin Screw Terminal)
IP Rating	IP20
Input Voltage	5-60V DC
Max. Power Draw	5W
Max. Heat Dissipation	4.5 W
Max. Output Voltage	5V
Max. Output Current	50mA
eDMX Input Protocol	Art-Net sACN ESP
Network Speed	10/100Base-T
Network Discovery	ENTTEC's EMU software
Network Configuration	Static (Default 192.168.0.10) / DHCP
Recommended Network Device Quantity Per Chain	Chains of up to 8 devices give optimum synchronisation between outputs.
Data Output Type	SPI (NZR)
Max. eDMX -> Pixel Conversion Per Device	8 Universes (4,096 channels)
Max. Pixels Controllable Per Device	RGB 1,360 (680 per port)
	RGBW 1,024 (512 per port)
Max Frame Rate	100fps
Firmware Updates	Web Interface
LED Indicators	Forward-facing LED indicator
	Network link/activity (integrated into RJ45 ports)
Cooling Method	Convection
Operating Temperature	-20°C to 50°C / -4°F to 122°F
Operating Humidity	5 to 95% (non-condensing)
Body Material	ABS plastic
Mounting Options	Surface & TS35 DIN Rail mount
Unit Dimensions	100.5*77.9*31 mm
Unit Weight	0.08kg / 0.18lbs
Shipping Dimensions	165*145*43 mm
Shipping Weight	0.15kg / 0.33lbs
Warranty	3-year return to the base manufacturer warranty

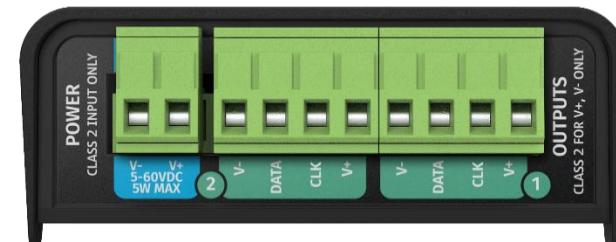
Certification



Box Content

- OCTO LITE

Screw Terminal Pinout



Supported Pixel Protocols (Pre-listed):

APA102, APA104, GS8208B, SJ1221 (16bit), SK6805, SK6812, SK6813, SM16703, SM16704, SPXL-16bit, TLC5973 (16bit), TM1804, TM1812, TM1814, UCS1903*, UCS2903*, UCS2904*, UCS7604, UCS8903 (16bit)*, UCS8904 (16bit)*, WS2811, WS2812, WS2812B, WS2813, WS2814, WS2815, WS2818*, 9PDOT (16bit)*

IMPORTANT: If you wish to control a protocol marked with a * and the option to do so is missing in the current firmware interface for your product, please select WS2811 or WS2812b instead for your LEDs to work properly.

Safety

- Please refer to the OCTO LITE User Guide for wiring diagrams & Installation guidance.
- Always refer to this product's safety notes before handling or specifying it on your project.

Ordering Information

For further support and to browse ENTTEC's range of products visit the [ENTTEC website](#).

Item	SKU
OCTO LITE	71523
OCTO Accessory Pack (5Pin WAGO x2, DIN CLIP x1, Screw x2)	51534

enttec.com

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Due to constant innovation, information within this document is subject to change.