ENTTEC

OCTO MK2 – Datasheet

8 universes eDMX to LED pixel controller with network chaining in a compact 4-module DIN-rail form factor.

AUSTRALIAN DESIGNED + MADE

ENTTEC's OCTO MK2 is a robust and reliable installation grade LED controller engineered to take any architectural, commercial or entertainment project to the next level.

With 8 universes of Ethernet-DMX to pixel protocol conversion and network chaining between devices, the OCTO MK2 allows for fast deployment of LED strips and pixel dot systems.

The OCTO MK2 is packed with installer-friendly features such as an identify button to check correct wiring, wide input voltage range (5-60VDC) and the flexibility to power it directly from the same source as the LED pixels. All contained within a slim electrically isolated 4 DIN form factor.

Furthermore, the newly released OCTO MK2 not only supports more than 20 pre-listed pixel output protocols below but also allows creation of custom pixel protocols (criteria apply, see user manual). All firmware updates and intuitive configuration management are conveniently accessible through its localhost web interface.

Note: Octo does not provide power to lighting fixture.

Features

- **Two * 4-universe pixel outputs with Data and Clock support.**

- **Supports for up to 8 universes of Art-Net, sACN, KiNet and ESP.**

- **Multiple pixel output protocols supported.**

- **Allows user to create custom pixel output protocols (criteria apply, see user manual).**

- **Easily extendable network - daisy chain ethernet connection through multiple devices.**

- **DHCP or Static IP address support.**

- **Grouping functionality to reduce input channel count.**

- **Surface or TS35 DIN rail mounting option.**

- **Identify/Reset button allows installers to quickly check wiring is correct without requiring a network connection.**

- **Intuitive device configuration and updates through the inbuilt web interface.**

Pre-listed Support Protocols*:

APA 102, APA 104, SPXL (16bit & 8bit), SK6812, TM1804, TM1812, TM1814, UCS1903*, UCS2903*, UCS2904*, UCS8903* (16bit & 8bit), UCS8904* (16bit & 8bit), WS2811, WS2812, WS2812B, WS2813, WS2815, WS2818*, 9PDOT* (16bit & 8bit).

* 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.

Specification

Connectors	2* Network (RJ45)
	2* SPI Output (4-Pin phoenix)
	1* Power (2-Pin phoenix)
IP rating	IP20
LED indicators	Forward facing LED indicator
	Network link / activity (integrated into RJ45 ports)
eDMX input protocol	Art-Net
	KiNet
Data output type	SPI (NZR). See ENTTEC website for all supported protocols
Max. eDMX -> pixel conversion per device	8 Universes (4096 channels)
Max. pixels controllable per device	RGB
	RGBW
Network speed	10/100Base-T
Network discovery	ENTTEC's EMU software
Network configuration	Static (Default 192.168.0.10) / DHCP
Integrated network switch	Yes
Recommended network device quantity per chain	Chains of up to 8 devices give optimum synchronization between outputs
Max. network device quantity per chain	50
Identify / Reset button	Yes
Configurable pixel color ordering.	Yes
Firmware updates	Through web interface[1]
Input voltage	5-60V DC
Max. power draw	5W
Max. heat dissipation	4.5 W
Max. output voltage	5V
Max. output current	50mA
Cooling method	Convection
Operating temperature	-20°C to 50°C / -4°F to 122°F
Operating humidity	5 to 95% (non-condensing)

The eDMX input protocol row also includes: sACN, ESP.
Max. pixels controllable: RGB — 1360 (680 per port); RGBW — 1024 (512 per port).

Body material	ABS plastic
Mounting options	Surface & TS35 DIN Rail mount
Unit dimensions	100.5*72.25*34 mm
Unit weight	0.11kg / 0.24lbs
Shipping dimensions	160*140*40 mm
Shipping weight	0.18kg / 0.39lbs
Warranty	3-year return to base manufacturer warranty

Certification

Box Content

- OCTO MK2
- 2 x WAGO connectors
- 1 x Din mounting clip & screws
- 1 x ELM Promo Code - 8 Universes (Promo Code sticker on the device) [2]

Phoenix Connector

Safety

- Please refer to the OCTO MK2 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 MK2[2]	71521

enttec.com

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA

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

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[1] Datasheet for OCTO MK2 (SKU: 71521) released after SN: 2374307, please load firmware version V4.0 onwards only.
[2] Use the Serial Number to claim free license for EMU software unless there is a Promo Code sticker on the device.
See latest User Manual from website for revision history regarding ELM Promo Code and appropriate firmware version of your device.