

ODE MK3 - Datasheet

Two-Universe bi-directional eDMX – DMX/RDM controller supporting Power over Ethernet (PoE).



The ODE MK3 is a robust, solid-state DMX node compatible with RDM, designed for optimal portability, simplicity, and functionality. This versatile device offers an ideal solution for converting a range of Ethernet-based lighting protocols to physical DMX and vice versa, eliminating the need for additional adaptors.

Supporting two universes of bi-directional eDMX <-> DMX/RDM through female XLR5 connectors, the ODE MK3 connects seamlessly to network infrastructure with a PoE-enabled RJ45 port. Its EtherCon lockable connectors add security to the wiring, providing reliable connectivity and peace of mind during installations.

Configuration and firmware updates for the ODE MK3 are managed via a user-friendly localhost web interface, making commissioning straightforward from any computer on the network. This simplicity, combined with its robust design, ensures the ODE MK3 is a powerful and practical choice for a wide range of lighting applications.

Features

- **Two-Universe bi-directional DMX / E1.20 RDM female XLR5s.**
- **One PoE (Power over Ethernet) RJ45 port supporting IEEE 802.3af (10/100 Mbps) plus an optional DC 12-24v power input.**
- **Secure 'EtherCon' connectors**
- **Support RDM over Art-Net & RDM (E1.20).**
- **Support for DMX -> Art-Net (Broadcast or Unicast) / DMX -> ESP (Broadcast or Unicast) / DMX -> sACN (Multicast or Unicast).**
- **HTP/LTP Merging support for up to 2 DMX sources.**
- **Configurable DMX output refresh rate.**
- **Intuitive device configuration and updates through the inbuilt web interface.**
- **'Current Port Buffer' allows live DMX values to be viewed.**

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Specification

Connectors	1* EtherCon Port (RJ45)	
	2* Bi-directional DMX (Female XLR5)	
	1* Power Input (DC Jack)	
IP Rating	IP20	
Input Voltage	12-24V DC	
Current Draw	57-187mA	
Max. Power Draw	2.3W	
LED Indicators	Status indicator	
	Network Link / Activity indicators	
eDMX Protocols	Art-Net	Art-RDM
	sACN	ESP
DMX Protocols	USITT DMX512-A	
	ANSI E1.20 RDM	
DMX & RDM Timings	Break time	300ms
	Mark after Break (MAB)	15ms
Max. Channels	2 Universes (1024ch)	
Max. Refresh Rate	44FPS	
Art-Net Merging	2 Sources	
Network Speed	10/100 Base-T	
Power over Ethernet	IEEE 802.3af	
IGMP Version	IGMPv2	
Network Configuration	DHCP/Static (default 192.168.0.10)	
Configuration Software	Web Browser	
Firmware Updates	Web Browser	
Environmental operating temperature	0°-50°C 32°-122°F	
Environmental operating humidity	5- 95% (non-condensing)	
Body material	ABS Plastic	
Unit dimensions	129x58x40 mm	
Unit weight	0.10kg / 0.22lbs	
Shipping dimensions	235*159*69 mm	
Shipping weight	0.45kg / 0.99lbs	
Warranty	3-year return to base manufacturer warranty	

Certification



Box Contents

- ODE MK3
- Ethernet Cable
- Power supply with AU/EU/UK/US adapters
- EMU Promo Code (6 months)¹

DMX connector

5pin DMX IN/OUT:

- Pin 1: GND (0V)
- Pin 2: Data -
- Pin 3: Data +
- Pin 4: NC
- Pin 5: NC

Application diagram



Safety

- Do not expose the device to rain or moisture. This unit is intended for indoor use only.
- Do not remove the cover, there are no user serviceable parts inside.
- Never connect DMX GND to an electrical 'earth' connection.
- For additional flexibility and increased protection ENTTEC recommends the use of a DMX splitter.

Ordering Information

For further support and to browse ENTTEC's range of products visit the ENTTEC website.

Item	SKU
ODE MK3	70407

enttec.com

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

¹ Promo Code is implemented after Serial Number 2367665.