

ODE MK2 / ODE PoE MK2 - Datasheet



Bi-directional Single Universe DMX Ethernet interface.



The ODE MK2 and ODE PoE MK2 are capable of converting ethernet based lighting protocols (including Art-Net and sACN) to physical DMX and vice versa.

Male and female XLR5 connectors allow the ODE MK2 and ODE PoE MK2 to be built into a DMX chain whilst in receive mode, without the need for adaptors.

ODE MK2 and ODE PoE MK2 come with the ability to merge two incoming sources when sent on the same Universe from two different IP addresses. The ODE MK2 and ODE PoE MK2 will merge the two incoming sources either with LTP or HTP merging as defined within its web configuration.

ArtRDM -> RDM (E1.20) conversion is supported when the ODE MK2 and ODE PoE MK2 has been configured as DMX Output and the Protocol is set to Art-Net.

The PoE variant supports Power over Ethernet (IEEE 802.3af). This can cut down on cabling required and allows for the ODE MK2 to be located in more remote locations without a local power supply.

The ODE MK2 and ODE PoE MK2 both feature ENTTEC's intuitive web-based configuration found in our premium products including, configuration, diagnostics, and firmware update support.

Features

- 1 Universe Ethernet to DMX (Output mode).
- 1 Universe DMX to Ethernet (Input mode).
- Supports the Art-Net, Streaming ACN (sACN E1.31) & ESP DMX over Ethernet protocols.
- Easy to configure & update through any web browser.
- Define the DMX refresh rate.
- Supports RDM over Art-Net (controller) & RDM (E1.20).
- HTP/LTP Merging support: up-to 2 Art-Net sources (if enabled).
- Supports Art-Net Broadcast or Unicast (Input mode).
- 1 RJ45 'EtherCon' connector (10/100 Mbps).
- Static or Dynamic (DHCP) IP configuration (DHCP by default).
- DMX XLR5 connectors.
- Supports IEEE 802.3af Power over Ethernet (PoE variant SKU 70406 only).

Specification

Connectors	1* RJ45 EtherCon	
	1* DMX Input (Male XLR5)	
	1* DMX Output (Female XLR5)	
	1* Power Input (DC Jack)	
IP rating	IP20	
LED indicators	Yes	
eDMX protocols	Art-Net	Art-RDM
	sACN	ESP
DMX protocols	USITT DMX512-A	
	ANSI E1.20 RDM ¹	
Bi-Directional	Yes	
Max. output channels	1 universe (512ch)	
Max. output refresh rate	40FPS	
Max. merging sources	2 Sources	
Configuration software	Web Browser	
Firmware updates	Web Browser	
Input voltage	7.5V to 24V DC ²	
Max. current draw	800mA	
Max. power draw	6W	
PoE (802.3af) support	ODE PoE MK2 only	
Environmental operating temperature	0°-50° C	
	32°-122° F	
Environmental operating humidity	5- 95% (non-condensing)	
Body material	Folded Aluminium	
Mounting options	N/A	
Unit dimensions	130x60x40 mm	
Unit weight	0.26kg / 0.58lbs	
Shipping dimensions	237*165*71 mm	
Shipping weight	0.48kg / 0.68lbs	
Warranty	3-year return to base manufacturer warranty	

1) Settings Art-Net Output only.

2) 7.5V-24V input voltage range implemented from Serial Number 0050C20814A0 onwards (Dec 2019). Please check your serial number and artwork on your device for input DC voltage.

Certification



Box contents

ODE MK2 (70405)

- ODE MK2
- Ethernet Cable
- Power supply with UK/ EU/US/AU adapters

ODE PoE MK2 (70406)

- ODE PoE MK2
- Ethernet Cable

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 MK2	70405
ODE PoE MK2	70406

enttec.com

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