

DIN ETHERGATE MK2 – Datasheet

Two-port bi-directional eDMX - DMX/RDM gateway in a compact 4-module DIN-rail form factor.



ENTTEC's DIN ETHERGATE MK2 is a robust and reliable installation grade DMX node engineered to take any architectural, commercial or entertainment project to the next level.

With standard 2 universes of bi-directional eDMX to standard DMX512-A conversion and ArtRDM support, the DIN ETHERGATE MK2 is a flexible, cost-effective method to connect physical DMX devices to your network infrastructure.

Unlock enhanced performance with overdrive mode; outputting at higher data transmission rate 500Kbps to control up to 1,024 channels per port. Control total up to 4 universes with a DIN ETHERGATE MK2¹.

Enjoy effortless daisy-chaining with dual Ethernet ports, one featuring Power over Ethernet (PoE). This provides a flexible and streamlined wiring solution, ideal for scalable installations.

The configuration as well as the firmware updates are managed through the localhost web interface to simplify commissioning from any computer on your network.

Designed for ease, the slim, 4 DIN-module electrically insulated housing supports TS35 DIN and surface mounting, with user-friendly pluggable terminal blocks for simple wiring.

Features

- **Two bi-directional DMX ports for standard DMX512-A featuring E1.20 RDM support.**
- **Overdrive mode outputs at a higher data transmission rate 500Kbps (DMX500K) allowing control of up to 2 Universes per port for compatible fixtures¹.**
- **Expandable network with dual Ethernet ports for daisy-chain connections.**
- **IEEE 802.3af PoE (Power over Ethernet) or DC 12-24v input.**
- **Support for Art-Net, sACN, ESP and KiNet to DMX conversion.**
- **HTP/LTP merging support for DMX sources.**
- **Configurable DMX output refresh rate.**
- **Intuitive device configuration and updates through the inbuilt web interface.**
- **Surface or TS35 DIN rail mount.**
- **10/100 Mbps network speed.**
- **'Current Port Buffer' allows live DMX values to be viewed.**

¹ Note: Overdrive mode - DMX500K is incompatible with DMX512-A and does not conform to ANSI E1.11 – 2024. Essential to verify the compatibility of fixture to ensure proper functionality.

Specification

| | | |
|------------------------|---|-------|
| Connectors | 2* LAN port (RJ45) | |
| | 2* Bi-directional DMX (4Pin Phoenix) | |
| | 1* Power Input (2Pin Phoenix) | |
| IP Rating | IP20 | |
| LED Indicators | Forward facing status indicator | |
| | Network link/activity indicators (RJ45 Port) | |
| Input - eDMX Protocols | Art-Net (RDM) | KiNet |
| | sACN | ESP |
| Output - DMX Protocols | DMX512-A/RDM (250 Kbps) DMX500K (500 Kbps) | |
| DMX & RDM Timings | Break time | 300ms |
| | Mark after Break (MAB) | 15ms |
| Art-Net Merging | 2 Sources | |
| Max. Channels | DMX512-A: 1,024ch (2U) | |
| | DMX500K: 2,048ch (4U) | |
| Max. Refresh rate | 44FPS | |
| Network Speed | 10/100Base-T | |
| Power over Ethernet | IEEE 802.3af | |
| Network configuration | DHCP/Static (default 192.168.0.10) | |
| IGMP Version | IGMPv2 | |
| Firmware updates | Through web interface | |
| DC input voltage | 12-24V DC | |
| Max. power draw | 7W | |
| Max. heat dissipation | 7W | |
| Operating temperature | 0°C to 50°C 32°F to 122°F | |
| Operating humidity | 5- 95% (non-condensing) | |
| Body material | ABS plastic | |
| Mounting options | Surface mount | |
| | TS35 DIN-Rail mount | |
| Unit dimensions | 100.5 * 72.25 * 34mm | |
| Unit weight | 0.11kg / 0.24lbs | |
| Shipping dimensions | 140 * 140* 40mm | |
| Shipping weight | 0.16kg / 0.35lbs | |
| Warranty | 3-year return to base manufacturer warranty | |

Certification



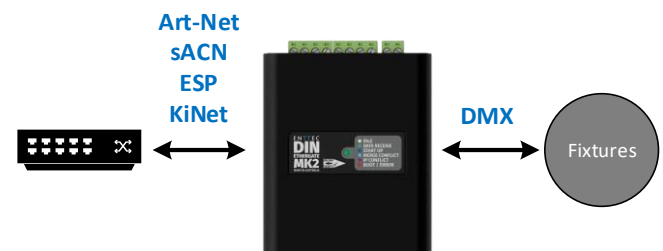
Box Contents

- DIN ETHERGATE MK2
 - TS35 DIN clip & screws
- (Power supply is not included)

Phoenix Connector



Application Diagram



Safety

- Do not expose the device to rain or moisture. This unit is intended for indoor use only.
- Do not remove the DIN 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 |
|-------------------|-------|
| DIN ETHERGATE MK2 | 71031 |

enttec.com

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