DIN Ethergate - Specification

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

General

1. The DMX Gateway shall specifically be designed to be part of a lighting control system.
2. The DMX Gateway shall be entirely solid-state with no moving parts, fans nor hard disc drives.
3. The DMX Gateway's operating code shall be stored in a dedicated non-removable non-volatile solid-state memory. It shall be possible to update the operating software from a remote computer using an Ethernet connection.
4. The DMX Gateway shall operate in conjunction with a compatible lighting controller.
5. There shall be visual indicators on the hardware showing status of the device and data.
6. The DMX Gateway shall support input of up to 2 universes of one of the following eDMX control protocols.
    a. Art-Net
    b. SACN
    c. ESP
7. The DMX Gateway shall have an in-built web interface for device configuration.
8. The DMX Gateway shall support the Remote Device Management protocol (ANSI E1.20) on each DMX512-A port in addition to ArtRDM -> RDM E1.20 conversion.
9. The DMX Gateway shall support merging of up to 2 eDMX sources using HTP or LTP.
10. The DMX Gateway shall have configurable DMX512-A output refresh rate.
11. The DMX Gateway shall be provided with a 3 year manufacturer warranty.
12. The unit shall be CE/UKCA/FCC compliant.

Physical

1. The DMX Gateway shall be a compact, electrically insulated, 4 unit DIN enclosure measuring (100.5 * 72.25 * 34mm).
2. The DMX Gateway shall be entirely solid-state with no moving parts or fans.

3. Connectors:
    a. The DMX Gateway shall support 2 * 4 pole pluggable terminal input/output for DMX512-A / RDM.
    b. The DMX Gateway shall support 1 * 2 pole pluggable terminal input for DC power.
4. The DMX Gateway shall have one RJ-45 connection with link and activity lights for ethernet in.
5. The DMX Gateway shall have a forward-facing LED indicator capable of displaying multiple states.
6. The DMX Gateway shall support surface mounting and din-rail mounting with provided TS35 din-rail mount.

Power

1. The DMX Gateway shall support 7-24V DC power input.
2. The DMX Gateway shall support IEEE802.3af PoE.
3. The DMX Gateway shall draw a maximum of 5 Watts power.

Environmental

1. The DMX Gateway shall operate in a temperature range from 0°C to 50°C (32°F to 122°F).
2. The DMX Gateway shall operate in a non-condensing humidity of 5-95%.
3. The DMX Gateway shall be IP20 rated.

Network

1. The DMX Gateway shall support 10/100 Base-T ethernet.
2. The DMX Gateway shall support DHCP and static network addressing.

Web Interface

1. The DMX Gateway shall operate a web server providing access through a dedicated local web interface without the need for additional software to configure the device.
2. The web interface shall allow configuration of network settings.
3. The web interface shall allow updating of device firmware.
4. The web interface shall allow configuration of the following settings.
    a. eDMX protocol selection (Art-Net, sACN, ESP).
    b. eDMX universe selection.
    c. DMX port input or output.
    d. DMX output refresh rate.
    e. eDMX merging of up to 2 sources (HTP or LTP).
    f. RDM enable/disable.