OVERVIEW

The Pathport® 6822 2-Port Gateway provides the full functionality of other Pathport gateways in a compact, DIN-rail mountable form factor.

System integrators can now easily put fully customized universes of DMX where they're needed.

Ideal for use in NEMA enclosures. Fully compatible with eDIN interfaces.

CONNECTIONS

The Pathport 6822 features terminal strips that can be removed from the card to facilitate easy wiring installation or replacement. Make the following connections, *WITH THE POWER TURNED OFF.*

POWER

The 6822 is designed to run on either Power-over-Ethernet (PoE), or on an auxiliary power supply providing between 18 and 48 volts DC. The gateway is Class 1 PoE and will draw up to 4 Watts.

If an auxiliary supply is used, observe the correct polarity when connecting V+ and V-. A second set of terminals are provided so power may be daisy-chained to other cards. The earth ground terminal must be connected to the enclosure's chassis or electrical ground terminal to ensure EMC compliance.

DMX512

DMX connections consist of a shield and data pair. Connect DATA+ and DATA- to D1+ and D1-. Observe the same polarity convention throughout the system. Connect the cable shield or common to the SHLD COM terminal.

NETWORK

All network wiring should follow standard Ethernet rules and be installed by a qualified person. As part of the installation, all wiring should be certified under the TIA/EIA-568 standard.

STATUS INDICATORS

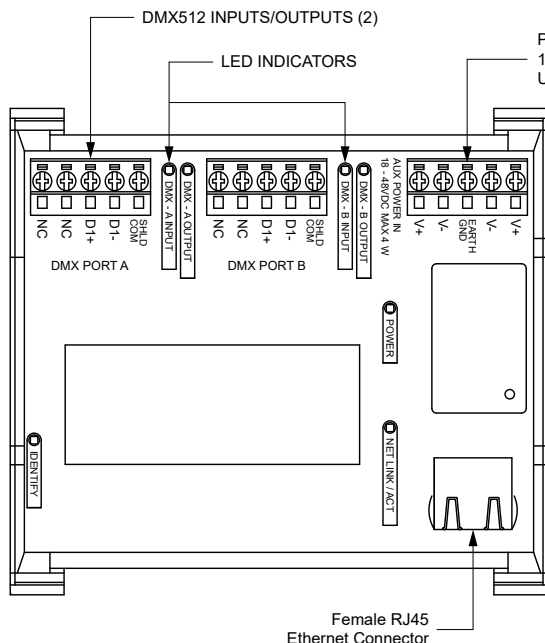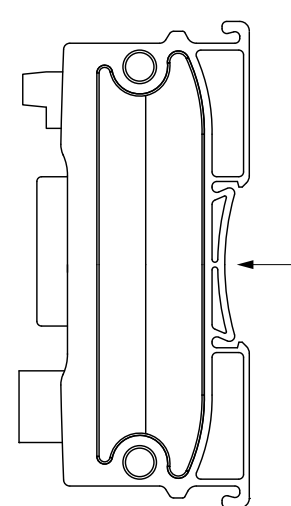|	
POWER	*Blue.* Steady glow indicates power supply is OK. Off indicates no power.
IDENTIFY	*Blue.* Blinks when identify is active.
DMX INPUT A/B	*Amber.* Steady glow indicates port latched to active DMX source. Input and Output off on all ports indicates no DMX source.
DMX OUTPUT A/B	*Green.* Steady glow indicates port is transmitting DMX. Input and Output off on all ports indicates no DMX source.
NETWORK LINK/ACT	*Green.* Flickering glow means active Ethernet network link. Off indicates no network link.

DMX512 INPUTS/OUTPUTS (2)

LED INDICATORS

POWER IN (If PoE not in use): 18-48VDC, 4W Supply required. Use #1001-100-48-DIN PSU or equal.

Female RJ45 Ethernet Connector

Fastening mechanism designed for 35 x 7.5mm DIN rail

INSTALLATION

- Disconnect all power before proceeding with installation.

- Securely mount DIN rail (if not already installed in an enclosure). To mount the 6822, hook the upper slots on the back of the plastic extrusion to the DIN rail and then gently but firmly press on the bottom front corners of the extrusion to snap the module onto the rail. **DO NOT press directly** on the PCB card itself.

- If the 6822 is using an auxiliary power supply, connect the power IN terminal block, after checking that polarity is being observed. The earth ground terminal must be connected to the enclosure's chassis or electrical ground terminal to ensure EMC compliance. Restore power and the card will boot up.

- Attach the network cable to the RJ45 connector. Because good wiring practice requires building wire to terminate with a female connector, typically a short (12"/30cm) male-to-male jumper is used. If PoE is being used, the card will boot up. Both auxiliary power and PoE may be connected simultaneously without damaging the 6822.

- The system is now ready for testing.

- To remove the 6822 from the DIN rail, use a flathead screwdriver to gently pry the hooked foot on the end caps of the device away from the DIN rail. The corner of the device should life free; repeat at the other side and unhook the device from the rail.

DEFAULT SETTINGS

The 6822 ships as a DMX output gateway with the following Ethernet receive protocols enabled: Pathport, Strand Shownet, ETC Net2, streaming ACN and ArtNet.

Port A is patched to Universe 1 and Port B is patched to Universe 2.

Channel information in DMX Universe 1, placed on the network using any of the above protocols, will cause Port A to actively output DMX.

FURTHER CONFIGURATION

A large number of parameters may be customized for the 6822, including: port direction, output channel patch, input universe number, transmit and receive protocols and DMX speed. Network properties such as IP address and subnet mask are also customizable by the user.

Detailed gateway configuration and overall network system management are done using Pathscape software, which is available for download from www.PathwayConnect.com

Please refer to the Pathscape manual for information on configuring these additional properties.

ELECTRICAL INFORMATION

- Power input: 18-48VDC or PoE 802.3af Class 1
- Maximum power consumption: 4 Watts
- 1000V isolation between ports
- 60V protection on DMX ports
- Ethernet: 802.3 10/100BaseT

COMPLIANCE

- USITT DMX512 - 1990 / ANSI E1.11 DMX512-A R2013
- E1.20 RDM - Remote Device Management
- E1.31 sACN - Streaming ACN
- RoHS 2002/95/EC