



DMX Management made easy! Pathport provides an easy way to organize and distribute multiple DMX universes with built in channel patching, merging and prioritizing.

## FEATURES

- Two DMX512 ports
- Distribute up to 64 DMX universes
- Powerful DMX routing capabilities
- Many DMX network products in one:
  - Channel Patch
  - Backup Switch
  - Priority Switch
  - DMX Monitor
  - Merger
  - Repeater
  - Focus Tool Port
  - Opto Isolator
- Graphical LCD
- Powered directly over Ethernet Cat 5 cable
- ESTA—ACN ready
- Easy system configuration
- Low installed cost
- Fits in a standard recessed 2 gang electrical backbox

## MODEL DESCRIPTION

6201	Pathport Node with 2 - DMX inputs
6202	Pathport Node with 2 - DMX outputs
6203	Pathport Mode with 1 DMX input, 1 DMX output
<i>Accessories</i>	
6901	Surface Mount Enclosure <i>Required for surface mounting .</i>
6911	Portable Enclosure <i>For portable or hanging use. Includes Neutrik EtherCon RJ45</i>
6116	Pathport 16 node power supply <i>Pathport power supply is not required if a powered hub is used.</i>
6010	Pathport Manager software on CD <i>Software is also available for free download from our website</i>



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## Specification

### 1.0 General

- 1.1 Provide dual DMX dataport smart nodes to permit DMX512 data to be encoded, routed and decoded over Ethernet.
- 1.2 Each node shall incorporate two 5-pin XLR type connectors. Output nodes shall utilize female connectors and input nodes shall utilize male connectors.
- 1.3 Nodes shall incorporate a backlit graphical LCD display for identification (soft-labeling) and status reporting. Labeling shall be user configurable.

### 2.0 DMX Ports

- 2.1 DMX ports shall comply with the requirements of the USITT DMX512 standard.
- 2.2 DMX inputs shall be fully opto-isolated from the node electronics and from each other.
- 2.3 DMX outputs shall be earth-ground referenced.
- 2.4 DMX ports shall be capable of withstanding fault voltages of up to 250VAC without damage.

### 3.0 Processor

- 3.1 Each node shall have sufficient processing power to manage up to 64 DMX universes
- 3.2 Maximum delay time from input to output shall not be greater than one packet time (approximately 30 mSec.).
- 3.3 A minimum DMX update rate of 40 Hz shall be sustained under all conditions.

### 4.0 Mechanical

- 4.1 The node faceplate shall be constructed of durable cast aluminum. It shall mount in a standard 2-gang masonry deep backbox.
- 4.2 Nodes shall be of pleasing appearance, suitable for high-visibility architectural locations.
- 4.3 No fasteners shall be visible on the node faceplate.
- 4.4 Nodes shall be provided in (*specify one*) natural aluminum or matte black finish.

### 5.0 Power

- 5.1 Power for the nodes shall be provided over the Cat 5 cable, complying with IEEE 802.3af. Systems requiring the installation of additional wiring for power shall not be acceptable.
- 5.2 The node electronics shall be electrically isolated from the power supplied over the Cat 5 cable.
- 5.3 Power may be provided from IEEE 802.3af compliant power-over-Ethernet hubs, or by using conventional hubs together with isolated in-line power supplies as provided by the node manufacturer.

### 6.0 Configuration

- 6.1 Nodes on the same network shall be remotely configured from a PC connected to the network.
- 6.2 Naming and configuration shall be accomplished using a PC. The node manufacturer shall provide the software for this function.

### 7.0 DMX Routing

- 7.1 It shall be possible for the user, with a PC connected to the network, to route complete DMX universes from any input port to any DMX output port at any node. It shall be possible to route universes to any number of nodes.
- 7.2 It shall further be possible to route individual DMX channels (or blocks of channels) from any input port to any output port.
- 7.3 It shall be possible to merge (HTP) inputs or individual DMX channels.
- 7.4 It shall be possible to prioritize DMX inputs or channels.
- 7.5 The PC shall only be required for configuration and signal routing, and shall not be required for the normal operation of the system.
- 7.6 All relevant routing information shall be stored in non-volatile memory at each node. The system shall recover from a power outage without requiring the PC to be online.

### 8.0 Network

- 8.1 Communications physical layer shall comply with the IEEE 802.3 10BASE-T Ethernet specification.
- 8.2 All network cabling shall be Cat. 5, conforming to TIA-568A/B, and shall be installed and certified by a qualified network installer.
- 8.3 Data transport shall utilize the TCP/IP suite of protocols to transfer the DMX data.
- 8.4 ESTA ACN shall be supported when available.
- 8.5 Hubs shall comply with power-over-Ethernet IEEE 802.3af, unless a separate in-line power supply is provided.

### 9.0 System Requirements

- 9.1 Provide the quantity and type of nodes required, as scheduled. Nodes and software shall be as manufactured by Pathway Connectivity (formerly Gray Interfaces).
- 9.2 Provide Ethernet hubs and power supplies as scheduled and shown on the drawings.
- 9.3 Provide a current generation PC with Windows operating system and a 10/100 Ethernet card.

