COMPLETE SOLUTIONS FOR SEAMLESS INTEGRATION OF CONTROLS & CONTROLLABLE PRODUCTS FOR ARCHITECTURAL SYSTEMS

BUILDING FACADE
HOTEL LOBBY
AIRPORT TERMINAL
FOUNTAIN
SPECIALTY RETAIL

Pathway®
Connectivity Solutions
**PATHWAY CONNECTIVITY**

PRODUCTS USED IN THESE APPLICATIONS MAY INCLUDE

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**CHOREO eDIN**
Headless programming and playback controller, with all the power of Choreo touchscreen and Cognito². Log into the remote UI using a laptop or mobile device, and make programming adjustments from wherever you need to be.

**COGNITO²**
The theatrical controller that aids in programming automated luminars, color mix LEDs and conventional loads using Task Oriented Navigation and Natural Language Control.

**NSB (Networked Sliders and Buttons)**
Using a PoE or RS485 multi-drop backbone, these button and sliders trigger memories and actions on Cognito² or Choreo. Decora® form factor modules may be arranged in one to six gang wall stations.

**VIA12 GIGABIT PoE ETHERNET SWITCH**
The rackmount entertainment-class gigabit PoE Ethernet switch with SFP fiber that forms the protective redundant ring and backbone of the entire network.

**VIA16 PoE ETHERNET SWITCH**
DIN-mount, entertainment-class PoE Ethernet switch that connects and powers controllers, wall stations and gateways.

Like all VIAs, this switch is fully managed by Pathscape and features PoE allocations and reporting, port bandwidth usage, VLANs, IGMP, RSTP, EAPS, DHCP and LLDP. It also has presets for Dante QoS.

**VIA24 PATHPORT 4-PORT GATEWAY, eDIN**
A compact 4-Port gateway for encoding, routing and decoding DMX512/RDM data over an Ethernet lighting control network.
Pathports are legendary for their advanced feature set including slot-by-slot patching accepting multiple sources, crossfade on priority change and signal loss behaviors.

**1004 eDIN DEMULTIPLEXER**
Converts DMX512 to 0-10VDC (source or sink) for control of LED drivers, Mark 7-type fluorescent ballasts, or solid state relays. Extremely versatile problem solver for lighting networks.

**NSB 485 GATEWAY**
Connects and powers NSB 485 wall stations, as well as accepts dry contact closure inputs for triggering Memories and other Show Control events on Choreo or Cognito² controllers.
In this application, Choreo eDIN is the main architectural control system. Using a laptop or mobile device connected to the network, you have full control of Choreo's interface, making programming easy from any location inside or outside your venue.

Cognito² is the hands-on live action lighting console. Visiting production companies may want to operate their show lighting with a console they bring with them, referred to as a “Guest Console”. Either the Cognito² or the guest console connect to the VIA switch for programming and playback of shows for special events, for example. Cognito², powered by an external PSU or by PoE, is designed for tabletop use (standard) or for installation in a 19” equipment rack.

NSB (Networked Sliders and Buttons) stations are fully customizable with 2 or 4 button inserts and single, dual or triple slider inserts. Make wall stations 1 to 6 gangs wide, powered either by PoE or multi-drop RS485. Each button or slider is easily mapped to a Choreo or Cognito² Memory, which in turn can operate lighting levels or trigger any other Show Control event such as starting a SMPTE clock, running a Playlist or even relinquishing control to other devices.

VIA Switches live at the very heart of the Pathway Connectivity ecosystem. Entertainment-class Ethernet switches with advanced management features support distribution of streaming data for audio, video and lighting control applications.

The VIA12 (D) in this application provides connection and Power-over-Ethernet for attached devices, but more importantly, a Gigabit fiber backbone for connecting the rest of the network. With two SFP fiber ports on the rear, the VIA12 allows for connecting a network over long distances that conventional Category cable cannot support. It also provides redundancy with EAPS Ring Protection, where the two fiber ports create a network ring. One port is designated as the Primary and the other the Secondary; any breakage or interruption of traffic on the Primary port immediately activates the Secondary port in a split second, so the show never goes down due to equipment or cabling faults.

In the tower control rooms there are VIA16 (E) switches. These PoE capable switches connect the NSB 485 Gateway, 6824 Pathport Gateway and 1004 Demultiplexer. The VIA16 also has two SFP fiber ports to connect it to the main fiber network ring.

The 0700-5393 NSB 485 Gateway shown here has 16 dry contact closure inputs for simple switches or sensors, which can be programmed to trigger playback of a Choreo/Cognito² Memory or other Show Control event.

In this application, “train sensors” laid out on the bridge would be activated by a passing train, triggering the bridge RGB LEDs, creating an effect of the lights following the train as it crosses the bridge.

The 6824 is a four-port Pathport DIN-rail mountable DMX/RDM-over-Ethernet Gateway that provides robust DMX-over-Ethernet routing, with advanced features such as RDM, crossfade between DMX sources, DMX output speed and signal loss behavior.

In this application, the 6824 routes DMX/RDM to the bridge RGB LED fixtures.

The 1004 eDIN Demultiplexer converts DMX512 to 0-10VDC for control of LED drivers, fluorescent ballasts or solid-state relays.

In this application, it is driving the white lights on the bridge cabling.

VIA, Pathport and Choreo connect to the SixEye device monitoring and management cloud. This gives operators and integrators an eye on their system 24/7 from any location in the world. SixEye monitors online status of all devices, including the RDM responders and can message you if anything goes offline. Management features include file upload, remote rebooting, DMX Hold and DMX level status. Custom control panels give end users secure and simple access to triggering programmed events.
A pioneer in entertainment lighting, Pathway Connectivity is renowned for solid, easy-to-use equipment with comprehensive, robust features.

Our reputation for innovation and reliability is based on over thirty years commitment to enhancing the functions and interoperability of lighting systems around the world.

For demonstration and training videos, visit our Pathway Connectivity YouTube Channel at www.youtube.com/pathwayconnectivity

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