Model 6708 VIA8 Ethernet Switch Installation Guide

OVERVIEW

The VIA8 is a DIN-mountable, managed gigabit Ethernet switch with eight copper ports and two mini-GBIC ports for SFP/SFP+ fiber modules.

This compact switch is designed specfically for sACN data distribution and is ideal for networks usings Pathport Gateways, Choreo controllers, Cognito consoles and NSB or Vignette architectural wall stations, with Power-over-Ethernet support for up to 8 devices.

CONNECTIONS

POWER

The 6708 is designed to run Class 3 PoE on ports 1-8. Typically most Pathport and Vignette devices are Class 2 or lower and a 100W 48VDC power supply (P/N 1001-100-48-DIN) will supply enough power for the switch and 8 connected PoE devices. Observe correct polarity when wiring DC IN plug.

The earth ground terminal must be connected to the enclosure's chassis or electrical ground terminal to ensure EMC compliance.

ETHERNET

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.

Pathway recommends the use of manufactured rather than hand-terminated cables. We also recommend 2100-DIN eDIN RJ45 patch which come in lots of 4 and use 3.5" of rail space. These use standard punch-down female connectors and essentially build a patch bay in the eDIN enclosure.

INSTALLATION

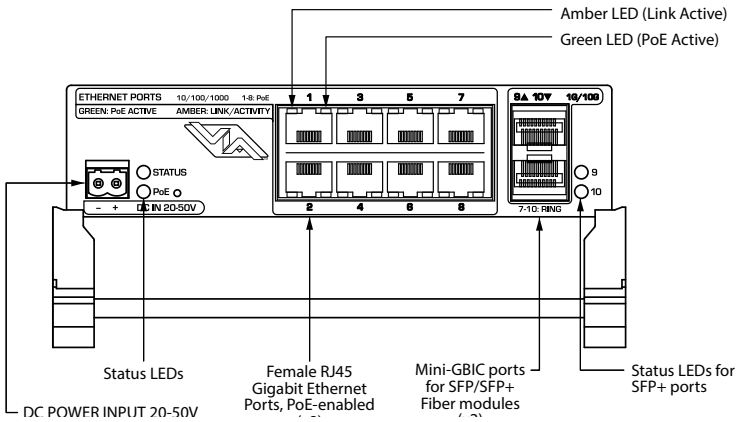
Disconnect all power before proceeding with installation.

Securely mount DIN rail (if not already installed in the enclosure). 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.

Connect the DC IN terminal, after checking that polarity is correct. The VIA8 will boot up, which may take 15-20 seconds.

Attach required network cables to RJ45 ports. Connect the fiber module(s), if used.

The system is now ready for configuration and testing.



STATUS INDICATORS

PoE	After boot up, solid green indicates PoE is available. Off indicates power supply voltage is not sufficient to supply PoE capability. Flashing green indicates PoE External Supply value set to 0
STATUS	Flashing blue (heartbeat) indicates power and processor OK; off indicates no power.
Fiber Port LEDS (9/10)	Green. Intermittent blinking indicates valid link to other device. Solid red indicates incompatible fiber transceiver.
RJ45 LEDs	Green & Amber. Solid green LED indicates PoE active on port. Intermittent blinking of amber LED indicates valid link to other device.

CONFIGURATION

For detailed instructions on operation of the VIA8, please see the VIA16 & VIA8 manual available at the Pathway website (Downloads > Manuals > VIA > VIA16 - VIA8 Manual).

Use the QR code below to access.

All field configuration of eLink is recommended to be done with **Pathscape** software.

Download the software from **www.pathwayconnect.com** and install.

Before configuring and using the switch, you must add it to a **Security Domain** using Pathscape.

Set computer's IP to a static address in the 10.x.x.x range, with a subnet mask of 255.0.0.0 and default gateway of 10.0.0.1. No configuration of the computer's DNS settings should be required. Plug into the eLink and launch the software. Discovery will be automatic.

Refer to additional VIA and Pathscape documentation for description of configuration options.

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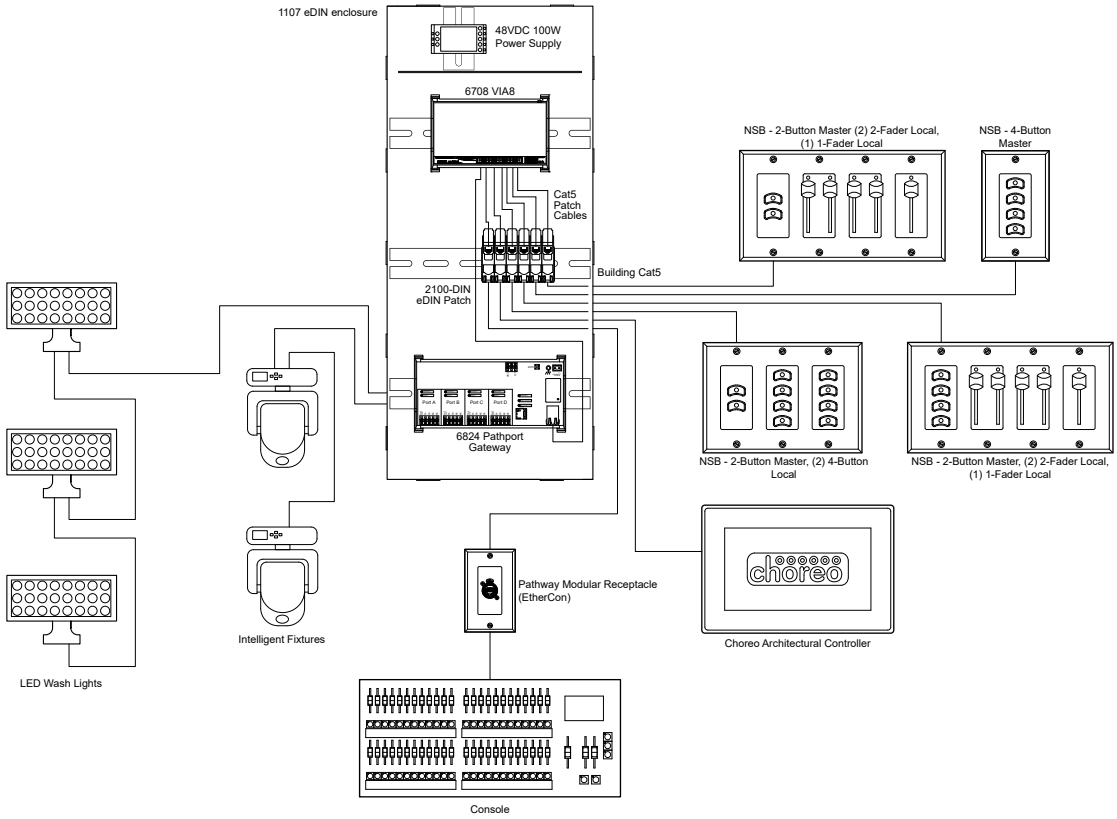
DEFAULT SETTINGS

IP Address	Static, set at 10.x.x.x (where x is a number between 0 and 254)
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
VLANs	Disabled (all ports run as untagged on VLAN ID #1)
Mgmt VLAN	VLAN ID#1
PoE Supply	External supply value set to zero watts (PoE effectively disabled)
Port PoE	Enabled. Above value must be set >5W before a PoE device will boot

QoS	Off
Port Link	Auto-negotiate
DHCP	Disabled
IGMP	Disabled
Art-Net Trap & Convert	Disabled
Art-Net Alternate Mapping	Enabled (only applies when above feature is enabled)

APPLICATION EXAMPLE



ELECTRICAL INFORMATION

- Power input:
  - Switch Only: 20-50 VDC, 10 watts maximum
  - Full PoE Support: 48-50VDC, 130 watts maximum (120 watts for 8 PoE devices)
- PoE Ports: Class 3, 15.4 watts maximum per port, x8

ACCESSORIES

2100-DIN	eDIN RJ45 patch (lot of 4) (3.5” of rail for 4)
1001-100-48-DIN	100 Watt, 48VDC Power Supply, DIN-mountable
6798	SFP+ 850nm 10GB Ethernet Optical Transceiver (VIA8, VIA12)
6799	SFP 850nm 1GB Ethernet Optical Transceiver (VIA8, VIA12, VIA16)

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