

# VIA Model 6705/6706 Ethernet Switch Installation

## OVERVIEW

The VIA5 and VIA5+1 gigabit Ethernet switch is a DIN-mountable, managed switch suitable for use in entertainment lighting, audio and video distributions systems. Ideal for use in NEMA enclosures and as a Power-over-Ethernet source for connected equipment, such as Pathport® DIN-mountable gateways, Cognito<sup>2</sup> lighting consoles and Choreo architectural controllers.

## CONNECTIONS

The 6705 and 6706 models feature terminal strips that can be removed from the card to facilitate easy wiring for power.

### Power

The 6705 and 6706 are designed to run on a 100W, 48VDC power supply to ensure the availability of Class 3 PoE on each of the RJ45 Ethernet ports.

Observe polarity when connecting V+ and V-. A second set of terminals are provided so power may be daisy-chained to other VIA5 switches or other Pathport DIN-mountable nodes. Do not connect 48VDC to eDIN interface cards. 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 terminating building wire to a female RJ45 cage, and using a male to male jumper to connect the wiring to the switch.



## 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. Do NOT press directly on the PCB card itself.

Connect the power terminal block, after checking that polarity is being observed. The VIA5 will boot up, which may take 15-20 seconds.

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

The system is now ready for configuration and testing.

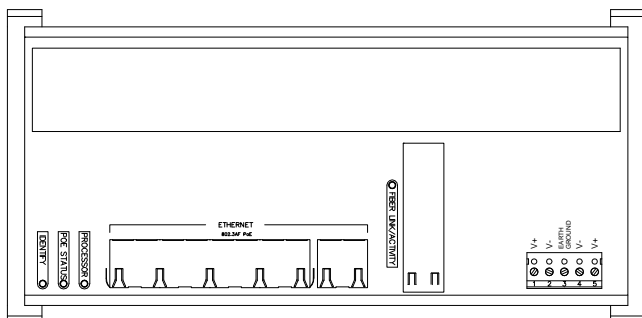
## STATUS INDICATORS

Processor	Red. Blinks when VIA is powered up and processor is functioning
PoE Status	Red. Off: 48VDC input not present (required voltage for PoE support). Blinking: 48VDC input present, but not configured. Steady: Functioning normally.
Identify	Blue. Blinks when identify is active.
Fiber//Link Activity	Amber. Functional on 6706 model only. Blinks when SFF module has valid connected to another device.

## RJ45 PORT STATUS INDICATORS

Link Activity	Amber. Intermittent blinking indicates valid link to other device.
PoE Status	Green. Steady indicates PoE in use. Blinking indicates insufficient PoE available to power end device.

6706 VIA5+1





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## DEFAULT SETTINGS

IP Address	Static, set as 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 to sACN Conversion	Disabled
Art-Net Alternate Mapping	Enabled (only applies when above feature is enabled)

## FURTHER CONFIGURATION

All field configuration of the VIA5 models must be done with VIA Manager software.

Download the software from [www.pathwayconnect.com](http://www.pathwayconnect.com) and install.

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 VIA5 switch and launch the configuration software. Discovery will be automatic.

Refer to software documentation for description of configuration options.

## SPECIFICATIONS

POWER SUPPLY:	48 VDC, 100W (when used as PoE source)
ETHERNET	802.3 10/100/1000BaseT
POE	802.3af
LLDP	802.1AB Link Layer Discovery



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