



PRG Series 400 7-Port Ethernet Switch User Manual

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PRG Series 400 7-Port Ethernet Switch



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PRG Series 400® Ethernet Switch User Manual

- **Version as of:** October 18, 2010
- **PRG part number:** 02.9801.0001 B

Production Resource Group

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INTRODUCTION

About This Manual

This manual provides necessary information regarding product safety, installation, and operation for the following PRG equipment:

- PRG Series 400® 10-Port Ethernet Switch (20.9801.0200)
- PRG Series 400® 7-Port Ethernet Switch (20.9801.0200.07)

Familiarizing yourself with this information will help you get the most out of your PRG product.

WARNING: It is important to read ALL accompanying safety and installation instructions to avoid damage to the product and potential injury to yourself or others.

Additional Documentation

For more information on related equipment, refer to the following PRG manuals

- PRG Series 400® Power and Data Distribution System User Manual (02.9680.0001.xx)
- PRG Series 400® Power and Data Distribution System Service Manual (02.9680.0010)
- Virtuoso® Node User Manual (02.9669.0001)
- Virtuoso® Node Plus User Manual (02.9801.0301)

For more information regarding DMX512 systems, refer to the DMX512/1990 & AMX 192 Standards publication available from United States Institute for Theatre Technology, Inc. (USITT).

USITT

- 6443 Ridings Road Syracuse, NY 13206-1111 USA
- 1-800-93USITT
- www.usitt.org

For more information regarding Art-Net protocol, refer to the specification for Art-Net II Ethernet Communication Standard available from Artistic Licence Ltd.

- Artistic Licence (UK) Ltd (Registered Office)
- 24 Forward Drive, Christchurch Avenue, Harrow, Middlesex, HA3 8NT, United Kingdom
- +44 (0)20 88 63 45 15 (phone)
- +44 (0)20 84 26 05 51 (fax)
- www.artisticlicence.com

For additional documentation, please visit our support tech center at: www.prg.com/support

Customer Service

For technical assistance, contact the PRG International Service Center or contact your nearest PRG office. Contact information for all PRG office locations can be found on our website at: www.prg.com/about-us/locations/

PRG Dallas (International Service)

- 8617 Ambassador Row, Suite 120 Dallas, Texas 75247 USA
- **Phone:** 214.630.1963
- **Fax:** 214.630.5867
- **Service Fax:** 214.638.2125
- **Service Email:** orders@prg.com

For additional resources and documentation, please visit our website at: www.prg.com

OVERVIEW

10-Port Ethernet Switch

The PRG Series 400 10-Port Ethernet Switch provides a powerful and convenient interface between V676®, Virtuoso®, or DMX512 control consoles and their control equipment. The 10-Port Ethernet Switch offers two types of connections: isolated copper Ethernet ports and fiber optic ports. The fiber optic ports provide the ability to send fast and reliable information up to 2 kilometers away without the need for repeaters using Virtuoso Fiber Optic Cable. The copper Ethernet connections offer the ability to combine standard copper connections with fiber optic transmissions.

Note: Copper connections are limited to a maximum distance of 300 feet.

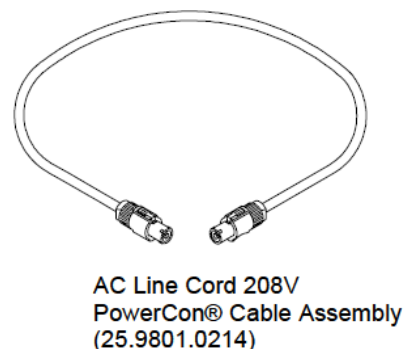
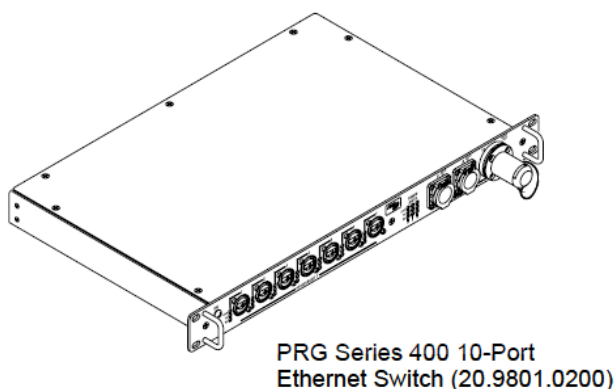
The 10-Port Ethernet Switch automatically determines the speed of each network connection based on the equipment connected to the switch and supports multiple connections with transmission and reception occurring simultaneously.

Features

- Seven isolated copper Ethernet ports for input of 10Base-T and 100Base-TX standard signal (Neutrik® EtherCon® connectors).
- Three fiber optic Ethernet ports for transmission of 100Base-FX standard signal. Two ports allow use of a Fiber Optic Cable input connector and one port allows use of a Fiber Optic Cable output connector.
- Automatic detection and configuration of input signal speed.
- Link, Transmission, and Reception status LEDs for all ports.
- Neutrik® PowerCon® connector for input AC supply.
- DC power status LED.
- Standard 1U 19" rack mount chassis.

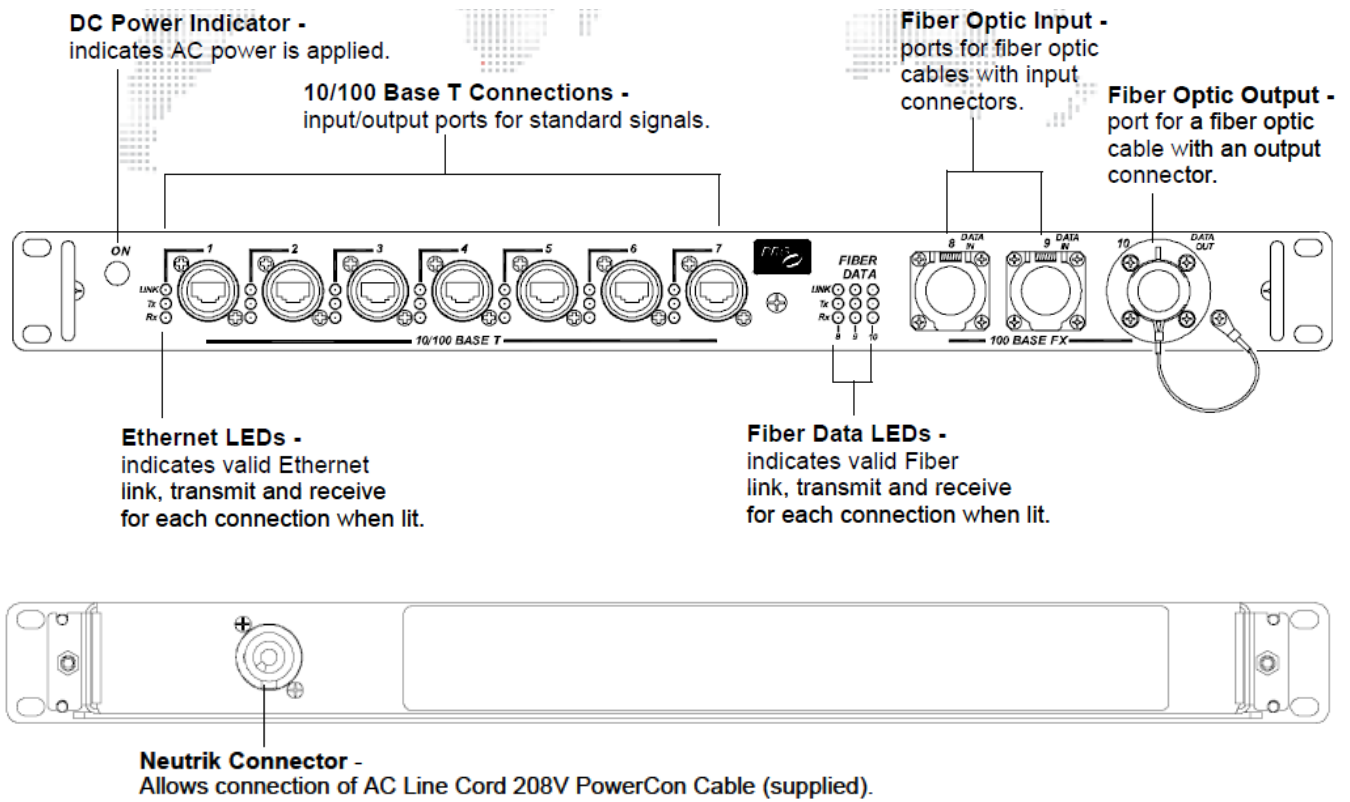
Included Items

- The following illustration shows all items included with this model:



Controls and Indicators

The Series 400 10-Port Ethernet Switch contains the following connections and LED indicators.



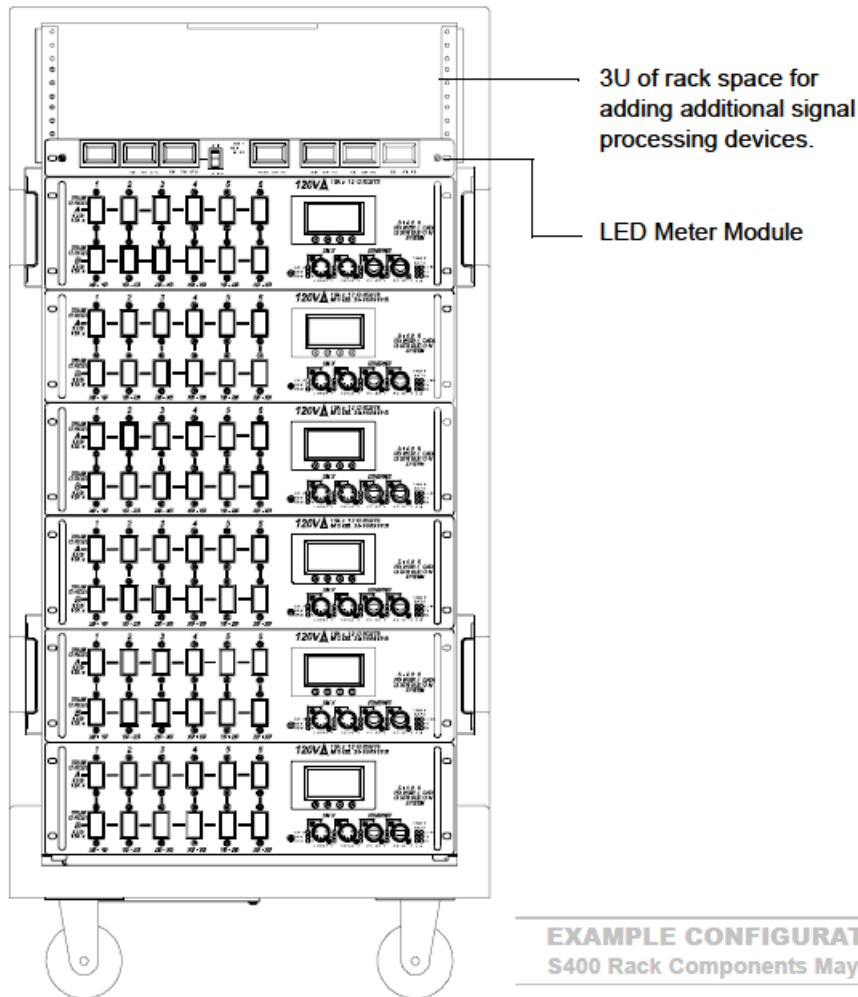
INSTALLATION

Installing Ethernet Switch

A Series 400 Ethernet Switch can be used independently or installed directly in a Series 400 rack chassis, using any blank space above the LED Meter Module.

To install in Series 400 rack

SERIES 400 RACK CHASSIS

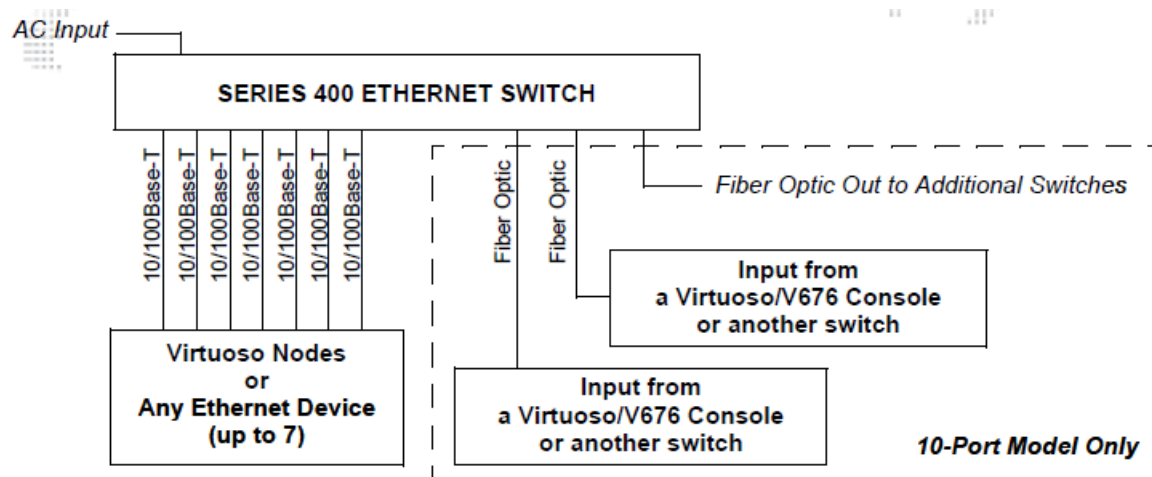


EXAMPLE CONFIGURATION
S400 Rack Components May Vary

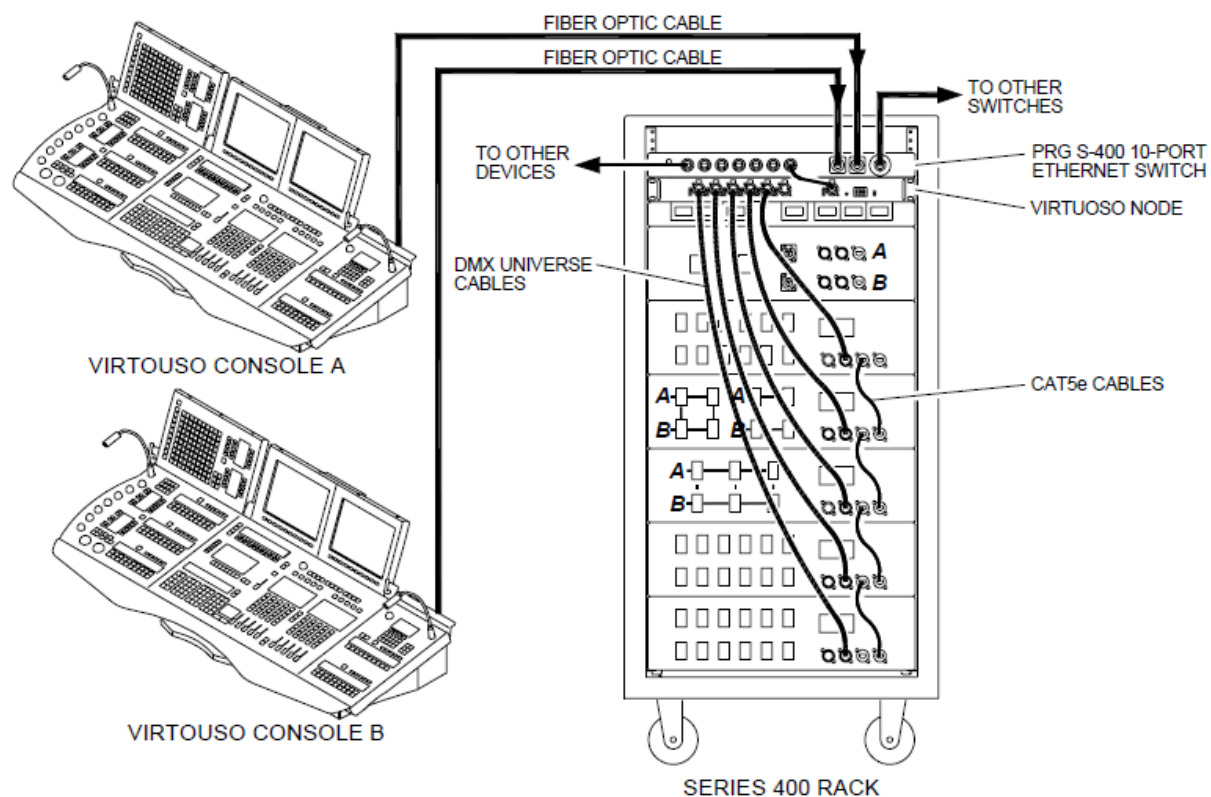
- **Step 1:** Install Ethernet Switch as required in top portion of rack chassis.
- **Step 2:** At Ethernet Switch rear panel, connect AC Line Cord 208V PowerCon® Cable (supplied) to Neutrik® connector.
- **Step 3:** After power is applied, verify that ON indicator is lit.
- **Step 4:** At the front panel, connect data cables as required. Refer to "Connecting Ethernet Switch to System".

Connecting Ethernet Switch to System

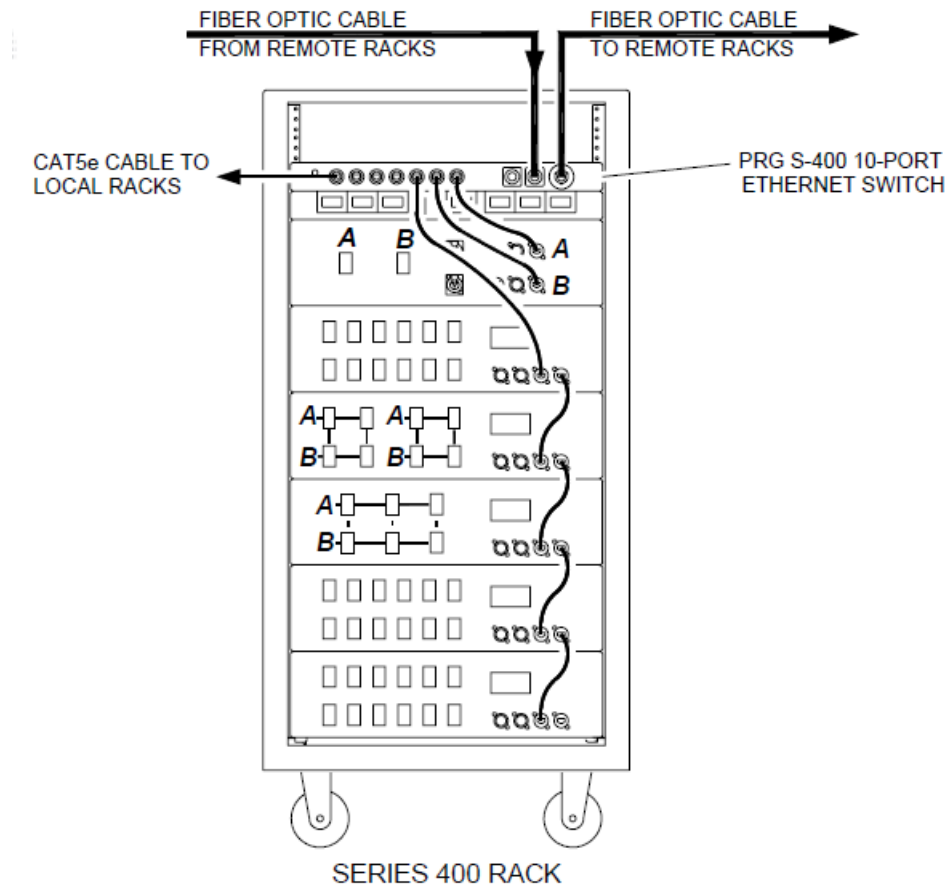
The Series 400 10-Port Ethernet Switch connects Ethernet devices using both CAT5e copper wire and armored fiber optic cable. Copper wire communication ports conform to 10/100Base-Tx standards and the fiber ports conform to 10/100Base-Fx standards. The Series 400 7-Port Ethernet Switch connects Ethernet devices using only CAT5e copper wire.



The following example system diagrams illustrate an Ethernet Switch being used with a Series 400 Power and Data Distribution Rack.



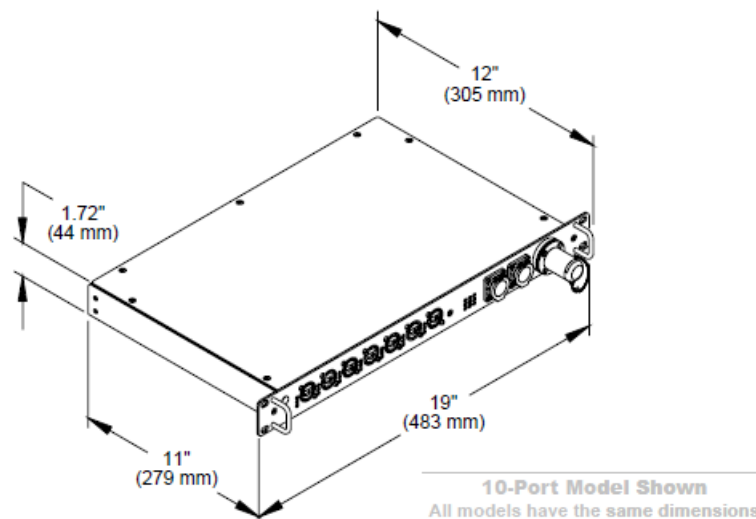
* Fiber optic connections available only with the 10-Port Ethernet Switch model.



* Fiber optic connections available only with the 10-Port Ethernet Switch model.

SPECIFICATIONS

Technical Specifications



- **POWER REQUIREMENT:** 90 to 264 VAC, 47 to 63 Hz
 - Draws less than 60 watts continuously.
- **COOLING:** Convection.
- **OPERATING TEMP:** -20°C to 50°C (-4°F to 122°F)
- **COPPER PORTS:** Seven isolated copper ports that can accept Ethernet signals using either 10Base-T or

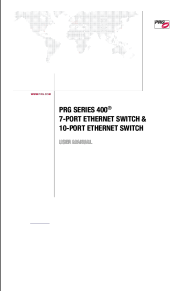
100Base-TX standards. Automatic detection and configuration of input signal speed.

- **FIBER OPTIC PORTS:** (10-Port model only) Three fiber optic ports that can accept 100Base-FX Ethernet signal.
 - The speed and direction of these ports are fixed. The ports use 62.5/125um multi-mode fiber media at 1300nm wavelength and operate up to a 2KM distance.
- **INDICATORS:** Green LED power indicator to show that DC power has been applied.
 - Status LEDs for each port indicating Link, TX Data, and RX Data.
- **HOUSING:** Standard 1U 19" rack mount chassis.
- **WEIGHT:** 4.5 lbs (2.04 kg)
- **COMPLIANCE:** United States: ANSI/UL 60950-1-UL Standard for Safety for Information Technology Equipment Safety
 - **Canada:** CAN/CSA C22.2 No. 60950-1 Information Technology Equipment Safety
 - **Europe:** CE Mark

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Documents / Resources

	PRG Series 400 7-Port Ethernet Switch [pdf] User Manual Series 400 7-Port Ethernet Switch, Series 400, 7-Port Ethernet Switch, Ethernet Switch, Switch
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References

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