Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

MADE IN USA

SPECIFICATIONS
MODEL 7411
Cat. No. 307411

PathWay® Model 7411 3-Channel BNC Interface 3-to-1 Switch, Independent Control, with Ethernet Remote Control Using SSH & HTTPS GUI

- Ideal for Sharing Laboratory Test Equipment Having a BNC Coaxial Cable Interface.
- Reliable and Field Proven in many Scientific Research Laboratory Applications.
- Flexible Remote Control Capabilities.

INTRODUCTION

With each of its three channels, the PathWay Model 7411 BNC A/B/C Switch allows the user to access three BNC devices connected to its A, B, and C ports with one BNC device connected to its COMMON port. The three channels are switched independently via (9) front panel Pushbuttons. Remote control access can be accomplished using an Ethernet 10/100Base-T connection and either SSH commands or a secure Graphical User Interface. The PathWay® Model 7411 is enclosed in a 1U, full rack size, all metal chassis designed to provide EMI/RFI shielding and fit in a standard 19" rack. See Figure 2 for details.

FEATURES

- Switch locally via (9) front panel pushbuttons (3 per channel) or remotely via the Ethernet remote control port.
- Remote Control SSH Command Interface or Graphical User Interface that allows the user to control switch position, lockout front panel operations, obtain switch status as well as query firmware version number and enable/disable auto send of switch positions.
- The switch ports are transparent to all data.
- Center pin and shell of the BNC connector are switched. The BNC connectors are isolated from the chassis
- Control of the switch position from a 10/100Base-T LAN Ethernet environment
- All BNC ports are impedance matched to support 50 ohm equipment.
- Front panel LED's display switch position and power status.
- Switch maintains position and continues to pass data during power loss.
- Switch powers up in last known position.
- Ground stud on rear panel.
- Custom length BNC cables available for your switch application.
- One year parts labor warranty against manufacturer defects.

SPECIFICATIONS:

PORT CONNECTORS: ALL ports are located on the rear panel
(12) BNC female ports from A, B, C, and COMMON
(1) RJ45 female SERIAL REMOTE PORT.
(1) 2-position Phoenix port for POWER.
FRONT PANEL CONTROL: (9) front panel pushbuttons (3 per channel).
REMOTE CONTROL: (1) RJ45 female connector on the rear panel accepts Ethernet 10/100Base-T connection and either SSH commands or a secure Graphical User Interface for remote operation.
POWER: UL approved 120VAC-240VAC, 50Hz-60Hz wall mount power module supplies 12 VDC, 500 mA to the unit. Has 2-prong, US, non-polarized plug.
DIMENSIONS: Rackmount configuration
19.0" W x 1.73" H x 10.6" D. (48.3 x 4.4 x 26.9 cm).
WEIGHT: Approximately 5.9 lbs. (2.7 kg).

WIDE RANGE POWER OPTION AVAILABLE:

(Cat No 517277) CE, RoHS, and UL listed table mount power module, 100VAC-240VAC, 50Hz-60Hz for use in place of standard power module that is included with the unit. Has IEC 60320 C14 inlet. Ideal for international applications.

Suggested cables for use with Model 7411 Switch.

Part Number	Description	Call for Price!
990136-010	RG58 Coaxial, 50 ohm, PVC, 10 FT. (M/M)	Call for Price!
890426-010	Thinnet RG58 Coaxial Cable, PVC, 50 ohm, 10 ft (M/M)	Call for Price!

Figure 1: Model 7411 Switch Cables

36 Western Industrial Drive, Cranston, RI 02921
Tel: 401-943-1164 Fax:401-946-5790
www.ElectroStandards.com
E-mail:eslab@ElectroStandards.com

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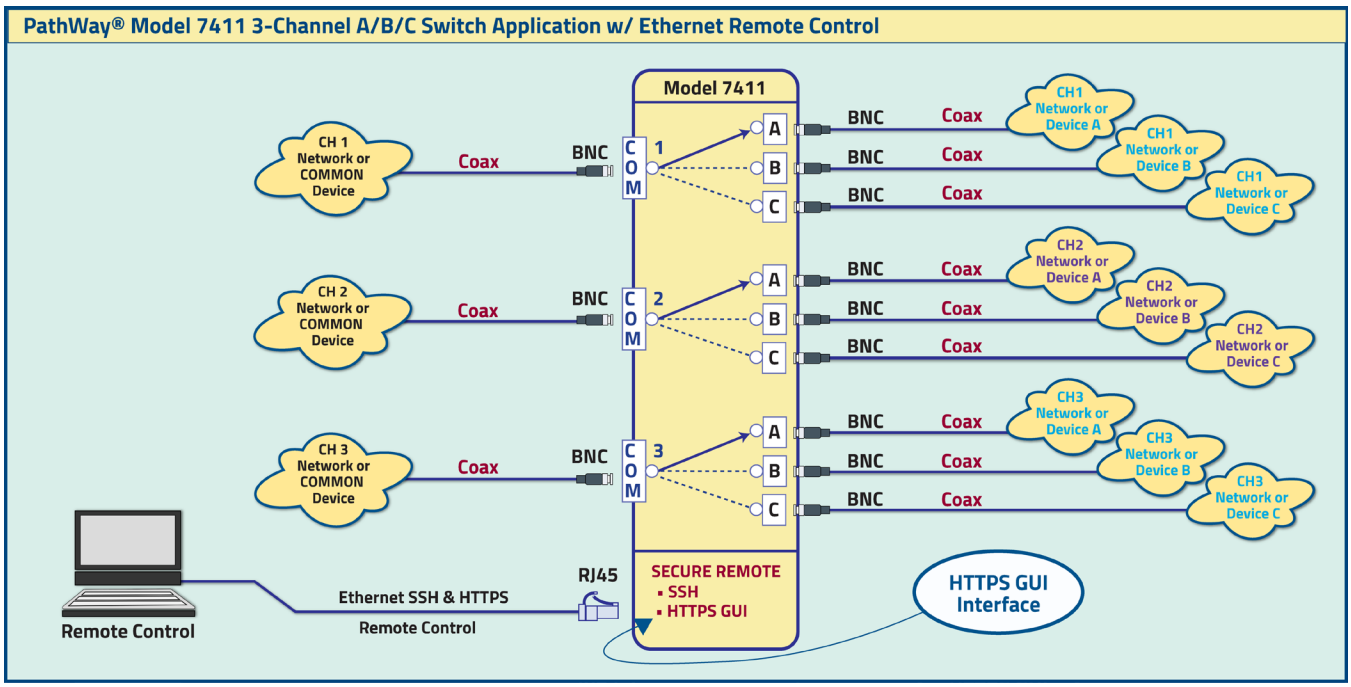


Figure 2: Model 7411 Application Diagram

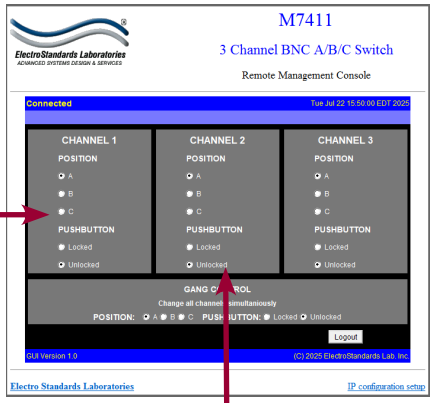
UTILIZING THE USER-FRIENDLY REMOTE GRAPHICAL USER INTERFACE SOFTWARE

To connect to the switch from a workstation or computer having access to the LAN that the Model 7411 LAN port is connected to, simply launch a standard web browser and type in the appropriate IP address. The Java Applet will be automatically uploaded from the switch upon connection. The environment requirement for the GUI is Java 1.7 and above.

Figure 3: GUI in a Standard Web Browser

CHANGING POSITION AND LOCK STATUS

To change the switch position of a channel, click on the radio button "A", "B", or "Offline" as desired for each channel. Locking and unlocking the front panel pushbuttons can be done by clicking on the "Locked" or "Unlocked" radio buttons for each channel. See Figure 4



Switch position by selecting "A", "B", or"Offline' for each channel.

Lock and unlock the front panel operation for each channel.

Figure 4: Change the position and lockout from the GUI

USING GANG CONTROLS

Gang Controls can be used to change the position or state of all channels simultaneously. When all channels are in the same position or state, that position or state will be selected by the Gang Controls. If one of the channels is in a different position or state, that respective Gang Control will not have either option selected. See Figure 5.

Switch All Channels between A, B, and Offline. Since not all Channels are in the same position, "A" is selected.

Switch all Channels between Locked and Unlocked. Since all Channels are Unlocked, "Unlocked" is currently selected.

Figure 5: Using the Gang Controls in the GUI.

36 Western Industrial Drive, Cranston, RI 02921
Tel: 401-943-1164 Fax:401-946-5790
www.ElectroStandards.com
E-mail:eslab@ElectroStandards.com