PathWay® Model 7238E 16-Channel RJ45 A/B Switch w/Telnet & GUI Remote

- **Applicable to switching ANY RJ45 interface networks or devices.**
- **Over 45 years of being a key supplier to the MIL/COTS industry.**

INTRODUCTION

The PathWay® Model 7238E 16-Channel RJ45 A/B Switch with Ethernet Remote Control allows the user the capability of accessing one of two separate devices via a device connected into the Common port for each channel. The Model 7238E is enclosed in a 2U, full rack size, all metal black chassis designed to provide EMI/RFI shielding and fit in a standard 19" rack.

The switch may be controlled manually by a front panel push button or remotely from an RJ45 10/100 Base-T LAN Ethernet port located on the rear of the unit.

Remote Control access can be accomplished using an Ethernet 10/100BASE-T LAN connection and either Telnet Commands or Graphical User Interface.

PathWay® Model 7238E

FEATURES:

- Each channel allows access to two RJ45 networks from one COMMON network or device.
- The switch ports are transparent to all data.
- All (8) pins of the RJ45 interface are switched via a break-before-make electromechanical relays.
- **Simultaneous control of all channels.**
- The unit maintains last set position on power loss and continues to pass data.
- Upon power restore, the unit will remain in the position it was in at power down.
- Front panel pushbutton control.
- Control of the switch position from a 10/100-Base-T LAN Ethernet environment.
- Remote Control Telnet Command Interface and Remote Graphical User Interface that allows the user to control switch position, lockout front panel operations, adn obtain switch status.
- Remote control of the switch is password protected, where the password protection can be disabled.
- Front panel LED's display present position and power status.

SPECIFICATIONS:

PORT CONNECTORS: (3) RJ45 female connectors labeled A, B, and COMMON for each of the sixteen channels.
FRONT PANEL CONTROLS: (1) Manual pushbutton allows local switching.
DISPLAY: (2) Front panel LED's display switch position and power status.
REMOTE: (1) RJ45(F) connector on rear panel accepts 10/100 Base-T LAN Access Ethernet for either Telnet Commands or Graphical User Interface (GUI) for Remote Control operation.
POWER: UL approved 100VAC-240VAC, 50Hz/60Hz wall mount power module supplies 12 VDC, 500mA to the unit. Has 2-prong, US, non-polarized plug.
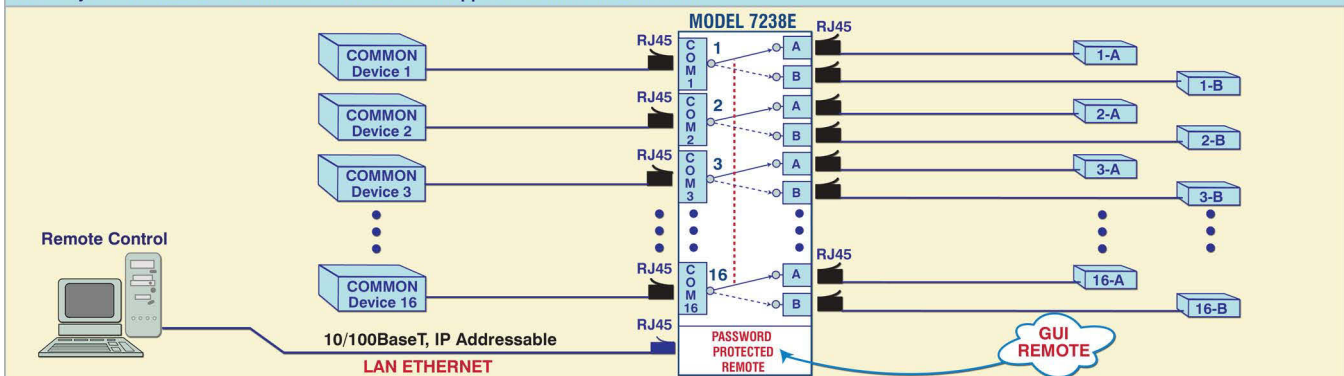**DIMENSIONS:** Rackmount 19.0" W x 3.5" H x 10.5 D. (48.3 x 8.9 x 26.4 cm)
WEIGHT: Approximately 6.0 lbs. (2.8 kg)

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.**

For equivalent unit, but also having RS232 Serial command and Contact Closure, Model 7238 Cat. No. 306238.

PathWay® Model 7238E 16-Channel RJ45 A/B Switch Application with Telnet and GUI

Electro Standards Laboratories

ADVANCED SYSTEMS DESIGN & SERVICES

PathWay Model 7238E 16-Channel RJ45 A/B Switch w/Telnet & GUI Remote

Ethernet Remote Port, I.P. Addressable, with GUI

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 7238E 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.
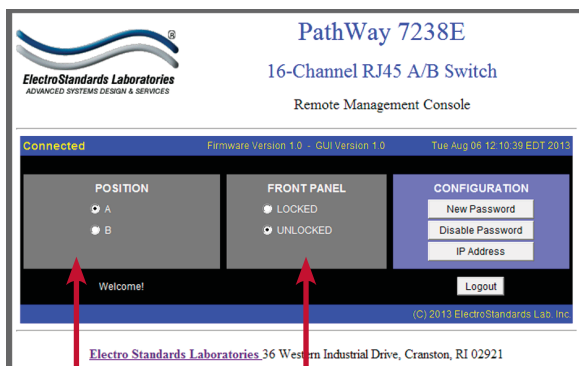
SOFTWARE FEATURES

★ **Graphical User Interface: Once logged in a user can:**
- **Select a position:**
  - o *Select* Position "A" or "B"; switching all sixteen channels simultaneously.
- *Lock and unlock* front panel pushbutton control.
- *GUI* is alerted to changes made by front panel pushbutton.
- Change Password or enable/disable password protection.
- **Access User Interface via standard web browser**
- Easy to use, simple point and click operation
- Remotely access to control or monitor the Model 7238E Switch System.
- Users can change the switch's IP address.
- LAN access gives users across the LAN or over the Internet access to control if user network is configured accordingly.

Figure 1: GUI in a Standard Web Browser

CHANGING POSITION AND LOCK STATUS

To change the switch position, click on the radio button "A" or "B" as desired. Locking and unlocking the front panel pushbutton can be done by clicking on the "Locked" or "Unlocked" radio buttons. See Figure 2.
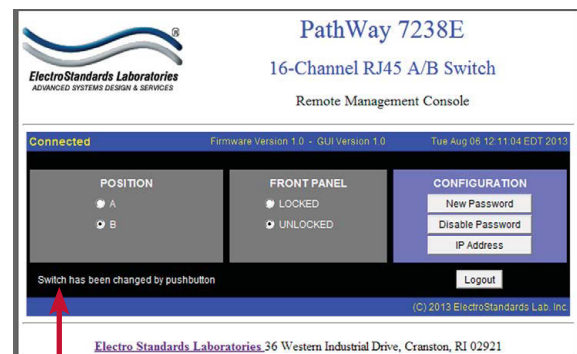

Switch position by selecting "A", or "B".

Lock and unlock the front panel operation

Figure 2: Change the position and lockout from the GUI

QUERYING THE STATUS OF THE UNIT

Once connected, the GUI will stay up-to-date on the current position and status of the unit. Any changes that are made outside of the GUI, such as by pushbutton, will be reflected in the GUI. These changes will cause the radio buttons of the GUI to automatically change to show the new status. The GUI will report the source of the most recent change in the bottom left of the panel. See Figure 3.

User is alerted in GUI panel:
"Switch has been changed by a pushbutton"

Figure 3: The GUI is alerted to changes in the unit status.