Electro Standards Laboratories
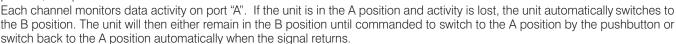ADVANCED SYSTEMS DESIGN & SERVICES

PathWay® Model 7142 Dual-Channel RJ45 A/B Switch with Automatic Fallback for PRI/ISDN Application

- *Automatically Switches to Backup Line when Primary Line Fails.*
- *Switches all 8 pins. Allows compatibility with All RJ45 interfaces.*

INTRODUCTION

The PathWay® Model 7142 Dual-Channel RJ45 A/B Switch with Automatic Fallback for PRI/ISDN allows the user the capability of sharing a single RJ45 interface device connected to the Common port among two other devices connected to the "A" and "B" ports, for each channel. The Model 7142 is enclosed in a 1U, full rack size, all metal black chassis designed to provide EMI/RFI shielding and fit in a standard 19" rack.

Each channel may be controlled manually via its front panel pushbutton only. The front panel LED display indicates switch position, and power status.

Each channel monitors data activity on port "A". If the unit is in the A position and activity is lost, the unit automatically switches to the B position. The unit will then either remain in the B position until commanded to switch to the A position by the pushbutton or switch back to the A position automatically when the signal returns.

PathWay® Model 7142

FEATURES:

- The switch ports are transparent to all data.
- **All (8) pins of the RJ45 interface are switched via break-before-make electromechanical relays.**
- The unit maintains last set position on power loss and continues to pass data.
- Upon power restore, the unit will remain in the position and operational mode (i.e. automatic mode or manual mode) it was in at power down.
- Front panel pushbutton control.
- Independent control of channels.
- **No Remote Control.**
- Front panel LED's display present position, mode, and power status.
- Select Automatic Mode or Manual Mode via front panel pushbutton control independently for each channel.
- Each channel is completely independent and can be in different modes and different positions.
- *In Automatic Mode,* the unit automatically chooses its switch position based on the presence or absence of data activity on port A.
- *In Manual Mode,* the unit will not monitor the presence or absence of data activity.

SPECIFICATIONS:

PORT CONNECTORS: (3) RJ45 female connectors labeled A, B, and COMMON for each of two channels.
FRONT PANEL CONTROL: (2) Manual pushbuttons, one for each channel.
DISPLAY: (4) Red LED's display switch position, 2 for each channel.
POWER: UL approved 100VAC/240VAC, 50Hz/60Hz wall mount power module supplies 12VDC, 500mA to the unit. Has 2-prong, US, non-polarized plug.
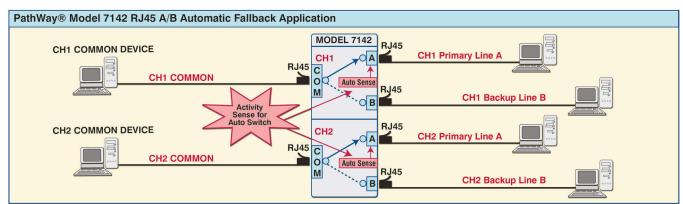**DIMENSIONS:** 19.0"W x 1.75"H x 8.12"D. (48.3 x 4.5 x 20.7 cm)
WEIGHT: 4.5 lbs. (2.1 kg)

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 in the unit. Has IEC 60320 C14 inlet. **Ideal for international applications.**

FEATURES: (cont.)
- The unit automatically switches to the secondary line, when no data is detected on primary line.
- A port is Primary and B port is the Secondary line.

PathWay® Model 7142 RJ45 A/B Automatic Fallback Application