Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

GSA Schedule
Contract GS-35F-0286V

SPECIFICATIONS
MODEL 7141
(Cat. No. 307141)

PathWay Model 7141 One-Channel RJ48/RJ45 Normal/Bypass Switch

- **Allows New Equipment to be Added-To or Bypassed-From T1/E1 Data Links.**
- **Ideal for inserting or removing devices that are concatenated, linked together in a chain or series.**

INTRODUCTION

The PathWay® 7141 One-Channel RJ48/RJ45 Normal/Bypass Switch supports connection into a network **(NORMAL)** or disconnection from a network **(BYPASS)** of an "in-series" type device or terminal. The Model 7141 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.

The switch may be controlled locally by manually operating the front panel pushbuttons, or remotely from the DB9 Serial Remote port located on the rear panel. The front panel LED display indicates if the switch is in Normal or Bypass Mode.

The PathWay® Model 7141 monitors data activity of port "2" and port "3". The Model 7141 can be set to different modes of operation to respond to data presence and data failure.

PathWay® Model 7141

FEATURES:

- **Model 7141 is a 1-Channel unit.**
- The switch ports are transparent to all data.
- All (8) pins of the RJ48/RJ45 interface are switched via break-before-make electromechanical relays.
- *Normal Position connects 1 to 2, and connects 4 to 3, thereby inserting concatenated device into the network.*
- *Bypass Position connects 1 to 4, isolates 2 and 3, thereby removing concatenated device from the network.*
- When power is lost, unit reverts to the Bypass position.
- **In Manual mode**, when power is restored, the unit stays in Bypass position.
- **In Auto mode**, when power is restored, the unit will automatically switch to the Normal position if signal is present on Ports 2 and 3 of a given channel.
- Remote RS232 ASCII commands that allow the user to control switch position, lockout front panel operations, and obtain switch status.
- Remote RS232 commands that also allow Set Filter Default value, unlock/lock the channel, Auto Mode, Manual Mode, and Recovery Mode.

SPECIFICATIONS:

PORT CONNECTORS: (4) RJ48/RJ45 female connectors labeled 1, 2, 3, and 4.

FRONT PANEL CONTROLS: (1) Manual pushbuttons allow local switching.

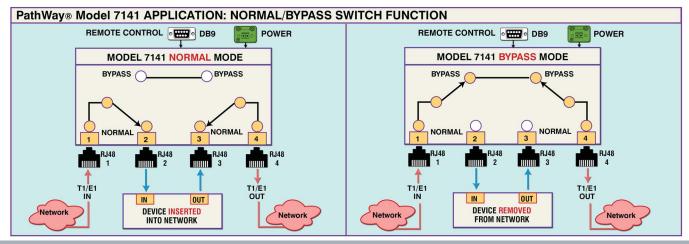**DISPLAY:** (2) Front panel LED's display switch position and power status.

REMOTE: (1) DB9 (F) connector on rear panel accepts ASCII RS232 Serial Data for Remote Control operation.

POWER: "Wide Range" **CE, RoHS, and UL listed** table mount power module (Cat. No. 517277) 100VAC/240VAC, 50Hz/60Hz. Has IEC 60320 C14 inlet. Ideal for international applications.

DIMENSIONS: Rackmount 19.0" W x 1.75" H x 8.2" D. (48.3 x 4.5 x 21.9 cm)

WEIGHT: Approximately 4.5 lbs (2.0 kg).

- **A 3-Channel unit is also available (Model 7143, Cat 307143).**
- **A 6-Channel unit is also available (Model 7146, Cat 307146).**
- ★ **Municipalities, schools, government: This product is on GSA Schedule!**

PathWay® Model 7141 APPLICATION: NORMAL/BYPASS SWITCH FUNCTION