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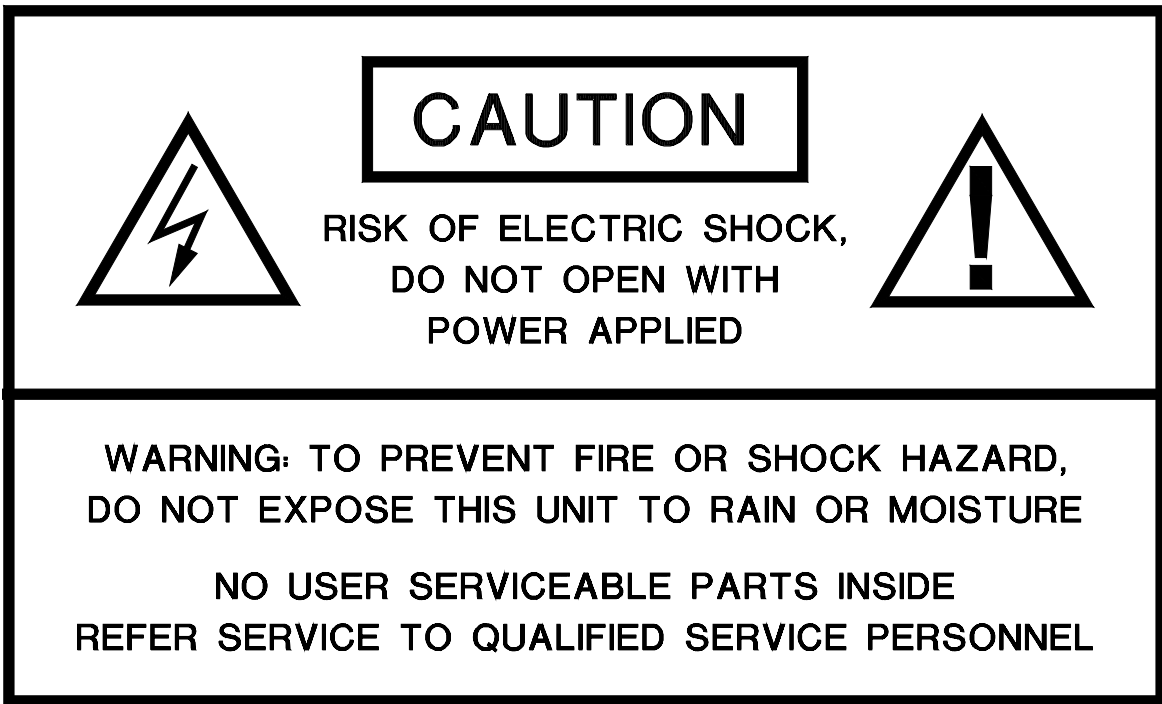
**120 Belmont Drive  
Somerset, NJ 08873-1204**

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**american fibertek    Phone: 732.302.0660 Fax: 732.302.0667**

## Instruction Manual

### MX4-1000TX Network Switch



## INSTALLATION AND OPERATION INSTRUCTIONS

### INTRODUCTION

Thank you for purchasing your American Fibertek MX4-1000TX series network switch. Please take a few minutes to read these installation instructions in order to obtain the maximum performance from this product.

### FUNCTIONAL DESCRIPTION

The MX4-1000TX series combines four copper Ethernet ports. MX4-1000TX units allow transmission speeds of 10 Mb/s, 100Mb/s, or 1000 Mb/s on each of the copper ports. Refer to the data sheets for detailed performance specifications.

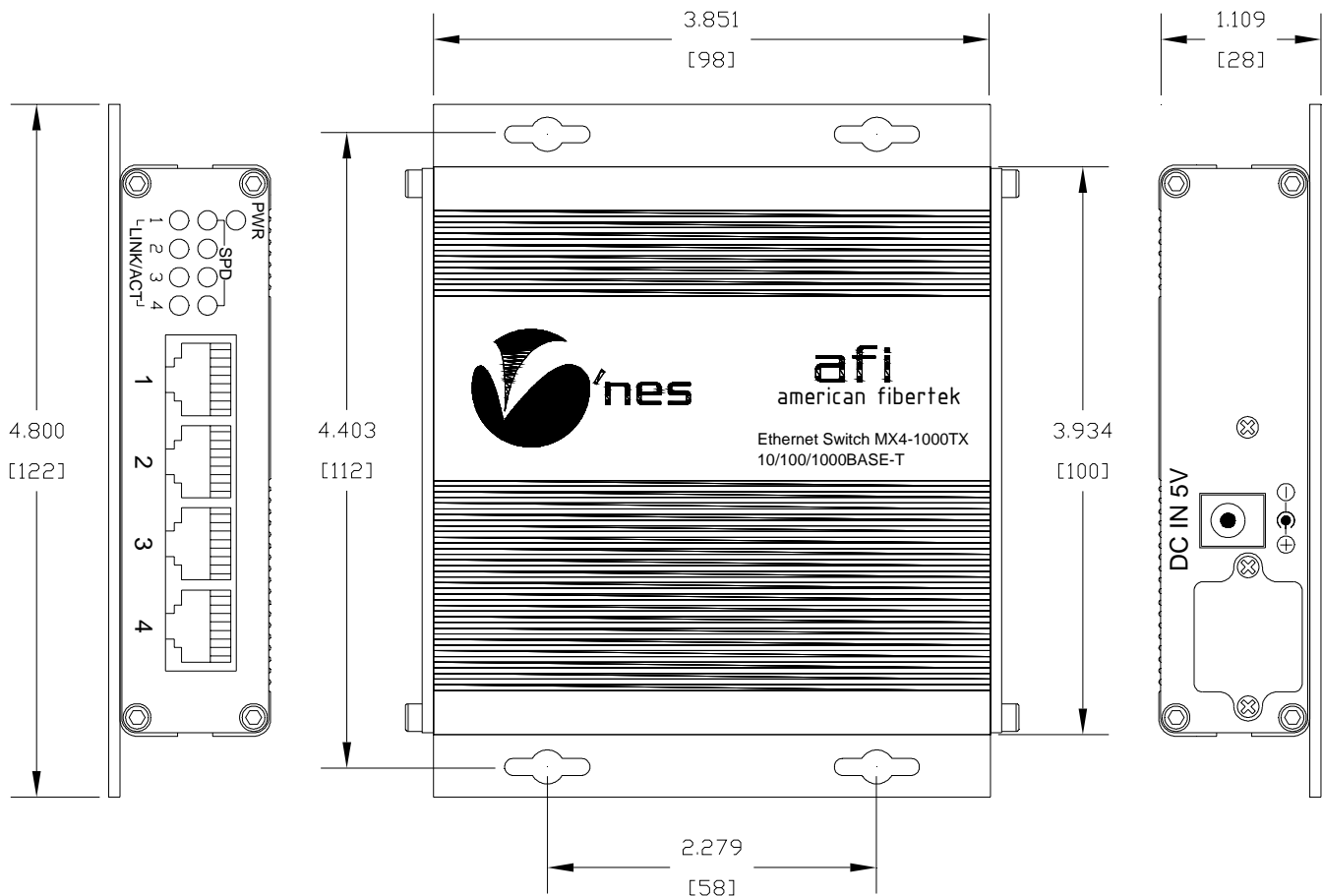
The MX4-1000TX series is configured to auto negotiate the data ports to either 10Base-T, 100Base-TX, or 1000Base-TX Ethernet data at full or half duplex. The auto negotiate feature also selects the proper MDI or MDIX interface.

This unit is contained in a compact and rugged aluminum housing with internal dc voltage regulation. The detachable terminal block, RJ45 Ethernet data connector, and LED indicators provide for easy installation and monitoring of data and dc power. The MX4 series is designed for mounting as a modular stand alone unit. For rack mounting in the MXRC-1 subrack see the MXR4 series.

### INSTALLATION

THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO THE NATIONAL ELECTRICAL CODE, ANSI/NFPA 70 AND LOCAL CODES.

Mount the MX4-1000TX unit to a secure surface using #8 (3mm) hardware in four places. See the drawing on the next page for mounting dimensions.



## MX4-1000TX

### MX4 SERIES POWER SOURCE

THIS PRODUCT SHALL BE POWERED BY A LISTED CLASS 2 POWER SUPPLY ONLY.

MX4 series units require a +5VDC power source for proper operation. The DC input is diode protected. In the USA and in Canada a 5 Volt DC power supply is supplied with this unit. The negative side of the power input is directly connected to ground. ANSI/NFPA 70 Class 2 wiring is recommended.

### MX4 SERIES POWER CONNECTION

Power is supplied to the MX4 series units via a connection on the right side of the unit (refer to the drawing above).

### MX4 SERIES DATA CONNECTIONS

The UTP Ethernet input/output connections are made via RJ45 plugs on the left side of the unit. A maximum CAT5 wire length of 100 meters is permitted.

## MX4-1000TX STATUS INDICATORS

The MX4-1000TX series units provide the following LED status indicators to aid in troubleshooting:

### PWR

A green LED indicator monitors the presence of DC power into the unit. Power status associated with this LED is summarized below.

PWR Indicator:	Power Status:
Green	Input Power at Correct Level
Off	Check Input Power

### LINK/ACT

A Green LED indicator monitors the connection and data flow on each of the four copper ports. Port status associated with this LED is summarized below:

LINK/ACT Indicator:	Port Status:
Solid Green	Port Connected
Flashing Green	Port Communicating
Off	No Data Flow

### SPD

A bi-colored LED indicator monitors the speed of the data flow on each of the four copper ports. Data status associated with this LED is summarized below:

SPD Indicator:	Port Status:
Green	Port Connected and in 1000 Mbps Mode
Amber	Port Connected and in 100 Mbps Mode
Off	Port Connected and in 10 Mbps Mode

**This unit complies with 21 CFR  
1040.10 and 1040.11**

## WARRANTY INFORMATION

American Fibertek, Inc warrants that at the time of delivery and for a period of five years thereafter the products delivered will be free of defects in materials and workmanship. Defective products will be repaired or replaced at the exclusive option of American Fibertek. A Return Material Authorization (RMA) number is required to send the products back in case of return. All returns must be shipped prepaid. This warranty is void if the products have been tampered with. This warranty shall be construed in accordance with New Jersey law and the courts of New Jersey shall have exclusive jurisdiction over this contract. **EXCEPT FOR THE FOREGOING WARRANTY, THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, EXPRESSED OR IMPLIED, WHICH EXTENDS BEYOND THE WARRANTY SET FORTH IN THIS AGREEMENT.** In any event, American Fibertek will not be responsible or liable for contingent, consequential, or incidental damages. No agreement or understanding, expressed or implied, except as set forth in this warranty, will be binding upon American Fibertek unless in writing, signed by a duly authorized officer of American Fibertek.

## SERVICE INFORMATION

There are no user serviceable parts inside the unit.

In the event that service is required to this unit, please direct all inquiries to:

American Fibertek, Inc.  
120 Belmont Drive  
Somerset, NJ 08873

Phone: (877) 234-7200  
Phone: (732) 302-0660  
FAX (732) 302-0667

E-mail: [techinfo@americanfibertek.com](mailto:techinfo@americanfibertek.com)