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Transition Networks M/GE-PSW-SX-01-NA

Transition Networks M/GE-PSW-SX-01 Mini Gigabit Ethernet Media Converter User Manual

Model: M/GE-PSW-SX-01-NA

1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of the Transition Networks M/GE-PSW-SX-01 Mini Gigabit Ethernet Media Converter. This device is designed to convert 10/100/1000Base-TX Ethernet signals to 1000Base-SX fiber optic signals, enabling seamless integration of copper-based Ethernet networks with fiber optic infrastructure.

The M/GE-PSW-SX-01 is a compact and reliable solution for extending network distances or connecting different network segments using fiber optic cabling.

2. FEATURES

- Device Type: Fiber media converter
- Form Factor: External, compact design
- Connectivity Technology: Wired
- Cabling Type Support: 10Base-T, 100Base-TX, 1000Base-T (copper) and 1000Base-SX (fiber)
- Data Link Protocol: 10Mb LAN, 100Mb LAN, GigE
- Data Transfer Rate: Up to 1 Gbps
- Optical Wave Length: 850 nm
- Maximum Transfer Distance: Up to 1800 ft (550 meters) over fiber
- Status Indicators: Comprehensive LEDs for Port status, Power, Link/Activity for both copper and fiber ports

3. PACKAGE CONTENTS

The package typically includes the following items:

- Transition Networks M/GE-PSW-SX-01 Media Converter Unit
- External Power Adapter

- Quick Start Guide or User Manual (this document)

Note: Please check the packaging for any additional accessories or documentation.

4. PRODUCT OVERVIEW

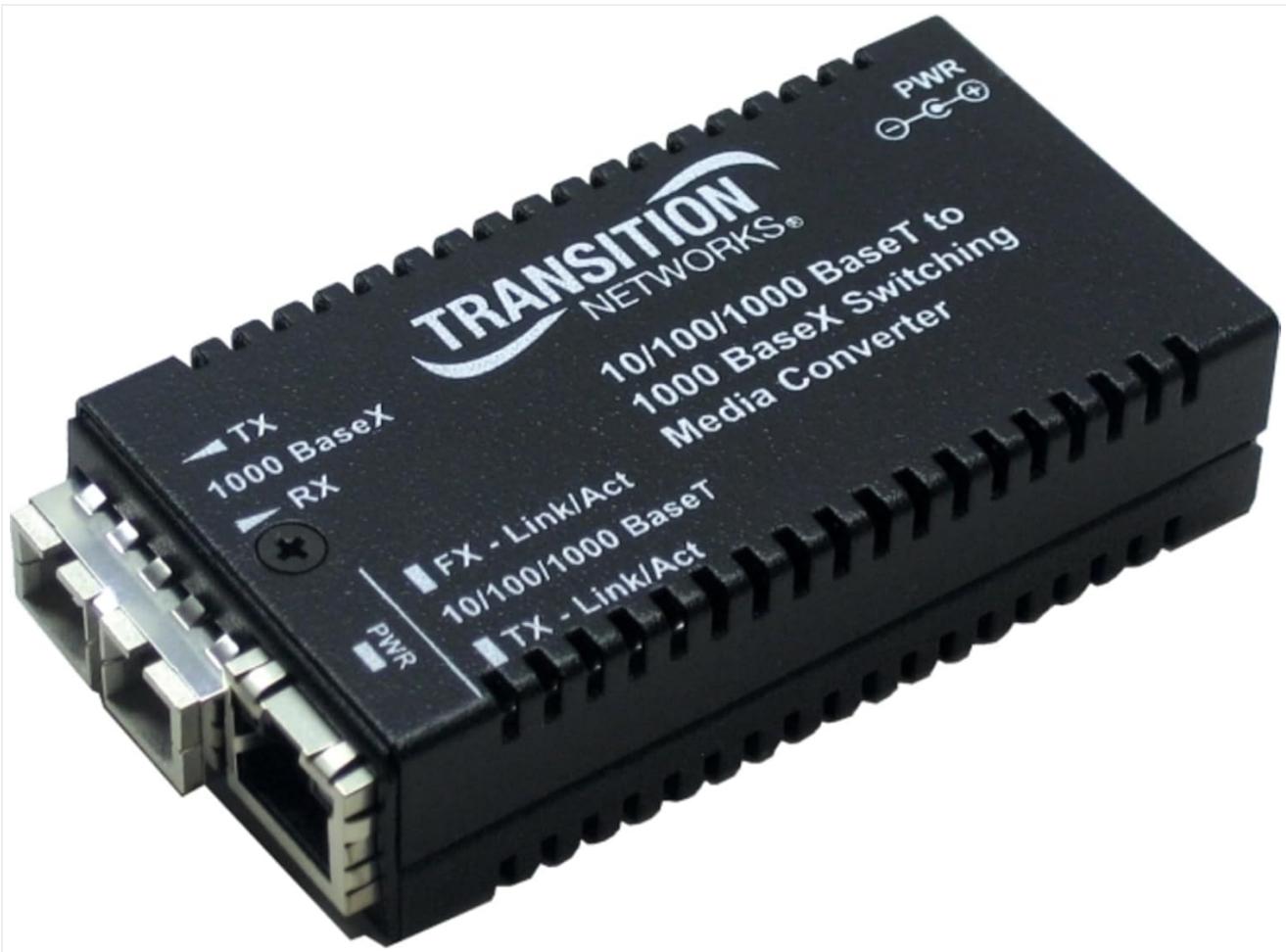


Figure 1: Transition Networks M/GE-PSW-SX-01 Media Converter

This image displays the Transition Networks M/GE-PSW-SX-01 media converter. It is a compact black device with a ribbed casing.

The front panel features an RJ45 Ethernet port and an SC fiber optic port. Several LED indicators are visible, including PWR (Power), FX-Link/Act (Fiber Link/Activity), and TX-Link/Act (Ethernet Link/Activity), along with labels for TX (Transmit) and RX (Receive) for the fiber connection.

LED Indicators:

- **PWR:** Indicates power status. Lit when the device is powered on.
- **FX - Link/Act:** Indicates the status of the fiber optic (FX) port. Lit when a valid fiber link is established; blinks when data is being transmitted or received.
- **TX - Link/Act:** Indicates the status of the copper Ethernet (TX) port. Lit when a valid Ethernet link is established; blinks when data is being transmitted or received.
- **10/100/1000 BaseT:** (Often integrated with TX-Link/Act or a separate LED) Indicates the speed of the copper Ethernet connection (10 Mbps, 100 Mbps, or 1000 Mbps).
- **1000 BaseX:** (Often integrated with FX-Link/Act) Indicates the speed of the fiber optic connection (1000 Mbps).

5. SETUP AND INSTALLATION

- Power Off Devices:** Before making any connections, ensure that all devices (network switches, routers, computers) are powered off.
- Connect Fiber Optic Cable:** Insert the SC fiber optic cable into the "FX" port of the media converter. Connect the other end of the fiber optic cable to your fiber network device (e.g., fiber switch, another media converter). Ensure the TX (Transmit) and RX (Receive) fibers are correctly matched.
- Connect Ethernet Cable:** Insert a standard RJ45 Ethernet cable into the "TX" port of the media converter. Connect the other end of the Ethernet cable to your copper-based network device (e.g., computer, switch, router).
- Connect Power Adapter:** Plug the provided external power adapter into the DC power input port on the media converter. Then, plug the power adapter into a suitable electrical outlet.
- Power On Devices:** Power on the media converter. The PWR LED should illuminate. Then, power on your connected network devices.
- Verify Connections:** Check the Link/Act LEDs for both the FX and TX ports. They should illuminate steadily when a valid link is established and blink to indicate data activity.

Important: Always handle fiber optic cables with care. Avoid bending them sharply or touching the optical connectors.

6. OPERATING INSTRUCTIONS

Once properly installed, the M/GE-PSW-SX-01 operates automatically. It functions as a transparent converter between the copper Ethernet and fiber optic segments of your network.

Monitoring Status:

Observe the LED indicators on the device to monitor its operational status:

- A solid **PWR** LED indicates the unit is receiving power.
- A solid **FX - Link/Act** LED indicates a stable fiber optic link. Blinking indicates data transmission.
- A solid **TX - Link/Act** LED indicates a stable copper Ethernet link. Blinking indicates data transmission.
- If the Link/Act LEDs are off, it suggests a problem with the cable connection or the connected device.

7. MAINTENANCE

The Transition Networks M/GE-PSW-SX-01 is designed for reliable, maintenance-free operation. However, following these guidelines can help ensure its longevity:

- **Environment:** Operate the device within its specified temperature and humidity ranges. Avoid extreme temperatures, direct sunlight, and high humidity.
- **Cleaning:** Keep the device clean and free of dust. Use a soft, dry cloth for cleaning the exterior. Do not use liquid cleaners or aerosols.
- **Cable Management:** Ensure cables are not excessively bent or strained, especially fiber optic cables, as this can degrade performance or cause damage.
- **Power Supply:** Use only the power adapter supplied with the unit.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power (PWR LED off)	Power adapter not connected or faulty; power outlet issue.	Ensure power adapter is securely connected to the converter and a working electrical outlet. Try a different outlet.
No Link on Fiber (FX - Link/Act LED off)	Incorrect fiber connection (TX/RX swapped); damaged fiber cable; issue with connected fiber device.	Verify fiber cable connections (ensure TX connects to RX on the other end). Inspect fiber cable for damage. Check the status of the connected fiber device.
No Link on Ethernet (TX - Link/Act LED off)	Faulty Ethernet cable; incorrect cable type (e.g., crossover vs. straight-through); issue with connected Ethernet device.	Replace Ethernet cable. Ensure the cable is appropriate for the connection. Check the status of the connected Ethernet device.
Poor Performance/Intermittent Connection	Cable quality issues; network congestion; environmental interference.	Use high-quality cables. Check for sources of electromagnetic interference. Ensure network devices are not overloaded.

9. SPECIFICATIONS

Attribute	Detail
Model Number	M/GE-PSW-SX-01-NA
Device Type	Fiber Media Converter
Form Factor	External
Connectivity	Wired
Copper Ports	1 x RJ-45 (10/100/1000Base-T)
Fiber Ports	1 x SC (1000Base-SX)
Data Link Protocol	10Mb LAN, 100Mb LAN, GigE
Data Transfer Rate	1 Gbps
Optical Wavelength	850 nm
Max Transfer Distance	1800 ft (550 meters)
Product Dimensions	11 x 9.5 x 3.25 inches
Item Weight	1 pounds
Localization	North America

10. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or service, please contact Transition Networks

directly or visit their official website. Keep your purchase receipt as proof of purchase for warranty claims.

Transition Networks Contact Information:

- Website: www.transition.com
- Refer to the product packaging or the Transition Networks website for the most current contact details.

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Manual Version: 1.0

Related Documents - M/GE-PSW-SX-01-NA

	<p>Transition Networks SISPM1040-384-LRT-C Managed Hardened Gigabit Ethernet PoE+ Switch Datasheet</p> <p>Datasheet for the Transition Networks SISPM1040-384-LRT-C, an 8-port managed hardened Gigabit Ethernet PoE+ switch with 4 SFP slots, designed for harsh environments.</p>
	<p>Transition Networks TN-SFP-xxx-Cxx CWDM SFP Transceiver Modules User Guide</p> <p>User guide for Transition Networks TN-SFP-xxx-Cxx series Small Form Factor Pluggable (SFP) CWDM Transceiver Modules, covering specifications, installation, operation, and compliance information.</p>
	<p>Phocos PSW Series Pure Sine Wave Inverters User Manual</p> <p>Comprehensive user manual for Phocos PSW Series Pure Sine Wave Inverters, covering installation, operation, safety precautions, troubleshooting, and technical specifications. Available in multiple languages.</p>

	<p><u>Sony SX-M700/SX-M100 Conference Systems: Features, Specifications, and Configurations</u></p> <p>A comprehensive overview of Sony's SX-M700 Simultaneous Interpretation and SX-M100 Discussion-Type Conference Systems, detailing their features, operational benefits, system components, optional enhancements like voting and management software, peripheral equipment, and technical specifications.</p>
	<p><u>Complex CMX-FMC-1001 Fiber Media Converter Gigabit Ethernet 1000Base-T to 1000Base-SX/LX SFP</u></p> <p>This document provides detailed information on the Complex CMX-FMC-1001 Fiber Media Converter, including its features, specifications, panel description, connection diagram, installation instructions, LED indicators, and warranty information. It converts 1000Base-T to 1000Base-SX/LX fiber optic connections.</p>
	<p><u>Amtrol Extrol Expansion Tanks Installation and Operation Instructions</u></p> <p>Comprehensive installation and operation instructions for Amtrol Extrol expansion tanks, models EX-15 through EX-90 and SX-30V through SX-160V. Includes safety warnings, pre-installation checks, installation steps, maintenance guidelines, and warranty information.</p>

Documents - Transition Networks – M/GE-PSW-SX-01-NA

[pdf] Specifications

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M/GE-PSW Series Mini Gigabit Ethernet Media Converter 10/100/1000Base-T to 1000Base-SX/LX M/GE-PSW- ... ing country specific power supply, add the extension from the list below to the end of the SKU; Ex: **M/GE-PSW-SX-01-NA** -NA = Country Code -NA = North America -LA = Latin America -EU = Europe -UK = Unit...

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[pdf] Specifications Dimension Guide

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M/GE-PSW-xX-01 Mini Gigabit Ethernet Media Converter 10/100/1000Base-T to 1000Base-SX/LX M/GE-PSW-S ... ing country specific power supply, add the extension from the list below to the end of the SKU; Ex: **M/GE-PSW-SX-01-NA** -NA = Country Code -NA = North America -LA = Latin America -EU = Europe -UK = Unit... Lang:en score:19 filesize:171.55 K page_count:1 document_date:2016-02-29

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below to the end of the SKU; Ex: **M/GE-PSW-SX-01-NA** -NA = Country Code -NA =
North America -LA = Latin America -EU = Europe -UK = United Kingdom

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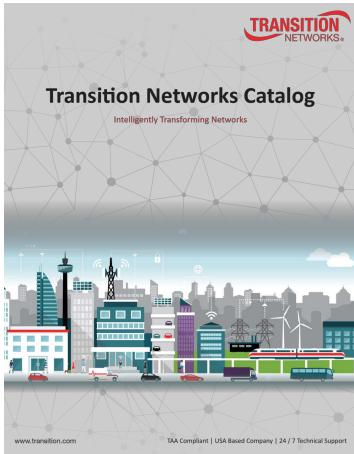
The catalog cover features a purple header bar with a white 'C' icon and the word 'Catalog'. The main title 'Media Converters, Extenders, & NIDs' is in large, bold, black font. Below it is a subtitle 'Cost Effective Integration Solutions for Evolving Networks'. The bottom of the cover has a red 'TRANSITION NETWORKS' logo and the text 'Transition Networks • Media Converters, Extenders, & NIDs Catalog'.

[\[pdf\]](#) Catalog

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