

Sophos ITFZTCHLX

Sophos 1000Base-LX Fiber Transceiver (GBIC) Instruction Manual

Model: ITFZTCHLX

PRODUCT OVERVIEW

The Sophos 1000Base-LX Fiber Transceiver (GBIC) is a high-performance module designed to provide Gigabit Ethernet connectivity over single-mode fiber optic cables. This transceiver is specifically engineered for use with Sophos UTM, SG, and XG series devices equipped with Small Form-Factor Pluggable (SFP) ports, enabling reliable and high-speed data transmission over longer distances compared to copper-based solutions.



Image: Sophos 1000Base-LX Fiber Transceiver. This compact silver module features a black latch mechanism, designed for seamless integration into SFP ports.

SETUP AND INSTALLATION

Follow these steps to properly install your Sophos 1000Base-LX Fiber Transceiver:

- Safety First:** Before handling the transceiver, ensure that the Sophos device is powered off and disconnected from its power source to prevent electrical hazards or damage to the equipment.
- Locate SFP Port:** Identify an available SFP port on your Sophos UTM, SG, or XG series device. These ports are typically labeled "SFP" or "Mini-GBIC".
- Remove Protective Cap:** Carefully remove the protective plastic cap from the optical interface of the transceiver. Avoid touching the optical surfaces.
- Insert Transceiver:** Hold the transceiver by its sides and gently slide it into the SFP port until it clicks into place. Ensure the latch mechanism is in the correct position for insertion. Do not force the transceiver.
- Connect Fiber Cable:** Connect a compatible single-mode fiber optic cable to the transceiver's optical interface. Ensure the connectors are clean and properly seated.
- Power On Device:** Once the transceiver and fiber cable are securely connected, power on your Sophos device. The link status indicator on the SFP port should illuminate, indicating a successful connection.

For detailed instructions on your specific Sophos device model, refer to its respective hardware installation guide.

OPERATION

The Sophos 1000Base-LX Fiber Transceiver operates automatically once properly installed and connected to a compatible fiber optic network. It facilitates full-duplex Gigabit Ethernet communication over single-mode fiber, converting electrical signals to optical signals and vice-versa.

- **Link Status:** The SFP port LED on your Sophos device will indicate the link status. A solid green light typically signifies a stable link, while a blinking light may indicate data activity. Refer to your device's manual for specific LED interpretations.
- **Data Transmission:** The transceiver supports 1000 Mbps (1 Gigabit per second) data rates, providing high-bandwidth connectivity for your network infrastructure.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your fiber transceiver:

- **Keep Clean:** Always keep the optical connectors of the transceiver and fiber cables clean. Dust and debris can significantly degrade performance. Use only approved fiber optic cleaning tools and methods.
- **Handle with Care:** Avoid dropping or subjecting the transceiver to physical shock. Store it in its protective packaging when not in use.
- **Environmental Conditions:** Operate the transceiver within the recommended environmental specifications (temperature, humidity) of your Sophos device.

TROUBLESHOOTING

If you encounter issues with your Sophos 1000Base-LX Fiber Transceiver, consider the following troubleshooting steps:

- **No Link Light:**
 - Ensure the transceiver is fully seated in the SFP port. Remove and reinsert it firmly.
 - Verify that the fiber optic cable is securely connected at both ends (transceiver and remote device).
 - Check the fiber cable for any visible damage or sharp bends.
 - Confirm that the remote device (e.g., another switch, server) is powered on and its fiber port is active and configured correctly.
 - Clean the fiber optic connectors on both the transceiver and the cable.
- **Intermittent Connectivity or Slow Speed:**
 - Inspect fiber cable for damage or excessive bends.
 - Ensure the fiber cable type (single-mode) matches the transceiver's requirements.
 - Check for excessive dust or dirt on the optical connectors.
 - Verify that the remote device's port is operating correctly and not experiencing issues.
- **Transceiver Not Recognized:**
 - Ensure your Sophos device firmware is up to date.
 - Confirm that the transceiver is compatible with your specific Sophos UTM/SG/XG model and SFP port.
 - Try inserting the transceiver into a different SFP port on the same device, if available.

If issues persist after attempting these steps, contact Sophos technical support for further assistance.

SPECIFICATIONS

Feature	Detail
Product Type	Fiber Transceiver (GBIC)
Model Number	ITFZTCHLX
Compatibility	Sophos UTM/SG/XG SFP Ports
Data Rate	1000Base-LX (1 Gigabit Ethernet)
Fiber Type	Single-Mode Fiber
Item Weight	1.92 ounces
Manufacturer	Sophos
ASIN	B00XUD9WN0
Date First Available	July 6, 2016

WARRANTY AND SUPPORT

Sophos products are designed for reliability and performance. For information regarding product warranty, please refer to the official Sophos website or the documentation included with your Sophos device.

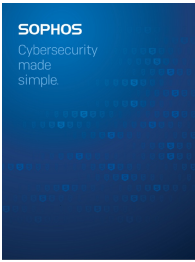
For technical support, product inquiries, or to access additional resources, please visit the official Sophos support portal or contact their customer service. You can find more information and products from Sophos at their [Sophos Store on Amazon](#).



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This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents

	<p>Sophos Migration Assistant: SG/UTM to XG Firewall Migration Guide</p> <p>This guide provides detailed instructions and best practices for migrating Sophos SG/UTM firewall configurations to the advanced Sophos XG Firewall platform using the Sophos Migration Assistant tool. Learn about prerequisites, conversion processes, and potential limitations for a smooth transition.</p>
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Product Datasheet

IT7CTZCHLX-C

Sophos® Compatible 1.25Gb/s SFP Transceiver

Hot Pluggable, Duplex LC, +3.3V, 1310nm, FP-LD, SMP 10km DOM D-70C

FEATURES

- Up to 1.25Gb/s Data Rate
- Hot-Pluggable
- Duplex LC connector
- Up to 10km on OM3/OM4 BIF
- Single +3.3V Power Supply
- Monitoring Element Compatible with SFP-B42
- Maximum Power=1W
- Controlling temperature range 0°C to 70°C
- B42i Compatible and Laser Trim

APPLICATIONS

- Metro/Access Networks
- 1.25 Gb/s 1000Base-LX Ethernet
- 1 + Fibre Channel
- Other Optical Links

DESCRIPTION

ATGBICS® Compatible IT7CTZCHLX Transceiver is a high-performance, cost-effective module which have a plastic, C-type interface. Standard LC coupler GIG, for high-speed signal and LVTTL control and monitor signals. The receiver section uses a PIN receiver, and the transmitter uses a 1310 nm FP laser, up to 15dB link budget ensure this can be 1000Base Ethernet 10km application.

Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit
Storage Temperature	T _s	-40		85	°C
Supply Voltage	V _{cc}	-0.3	-0.3	+1	V
Relative Humidity	RH			85	%

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