

StarTech.com SFPGLCLHSMST

StarTech.com Cisco GLC-LH-SM Compatible SFP Module (SFPGLCLHSMST) User Manual

Model: SFPGLCLHSMST

[Overview](#) [Setup](#) [Operating](#) [Introduction](#) [Product](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides instructions for the StarTech.com SFPGLCLHSMST Cisco GLC-LH-SM Compatible SFP Module. This module is designed to deliver dependable 1GbE (1000 Mbps) connectivity over fiber cable for 1000BASE-LX/LH compliant networks. It is compatible with Cisco switches and routers, as well as MSA compliant switches from other brands.

2. PRODUCT OVERVIEW

The StarTech.com SFPGLCLHSMST is a hot-swappable SFP fiber transceiver module, ensuring seamless upgrades and replacements with minimal network disruption.

2.1 Key Features

- **Cisco Compatibility:** 100% compatible with Cisco GLC-LH-SM, designed to work with Cisco switches such as IE3400, IE3300, IE3200, ME1200, ME2400, and others.
- **Technical Specifications:** Supports 1000BASE-LX/LH, 1 Gbps data rate, Single Mode (SMF)/Multi Mode (MMF) fiber, LC Connector, 1310nm wavelength, and distances up to 20km (12.4mi).
- **OEM Host Compatibility:** Tested for hot-swappable operation in Cisco routers and switches.
- **MSA Compliance:** Also compatible with MSA compliant switches from brands like Ubiquiti, D-Link, Netgear, Supermicro, and TP-Link that accept uncoded modules.

2.2 Package Contents

- 1 x StarTech.com 1.25 Gbps Single Mode LC SFP Module (SFPGLCLHSMST)

2.3 Product Images



Figure 1: Top-down view of the StarTech.com SFP module, showing its metallic casing and connector end.

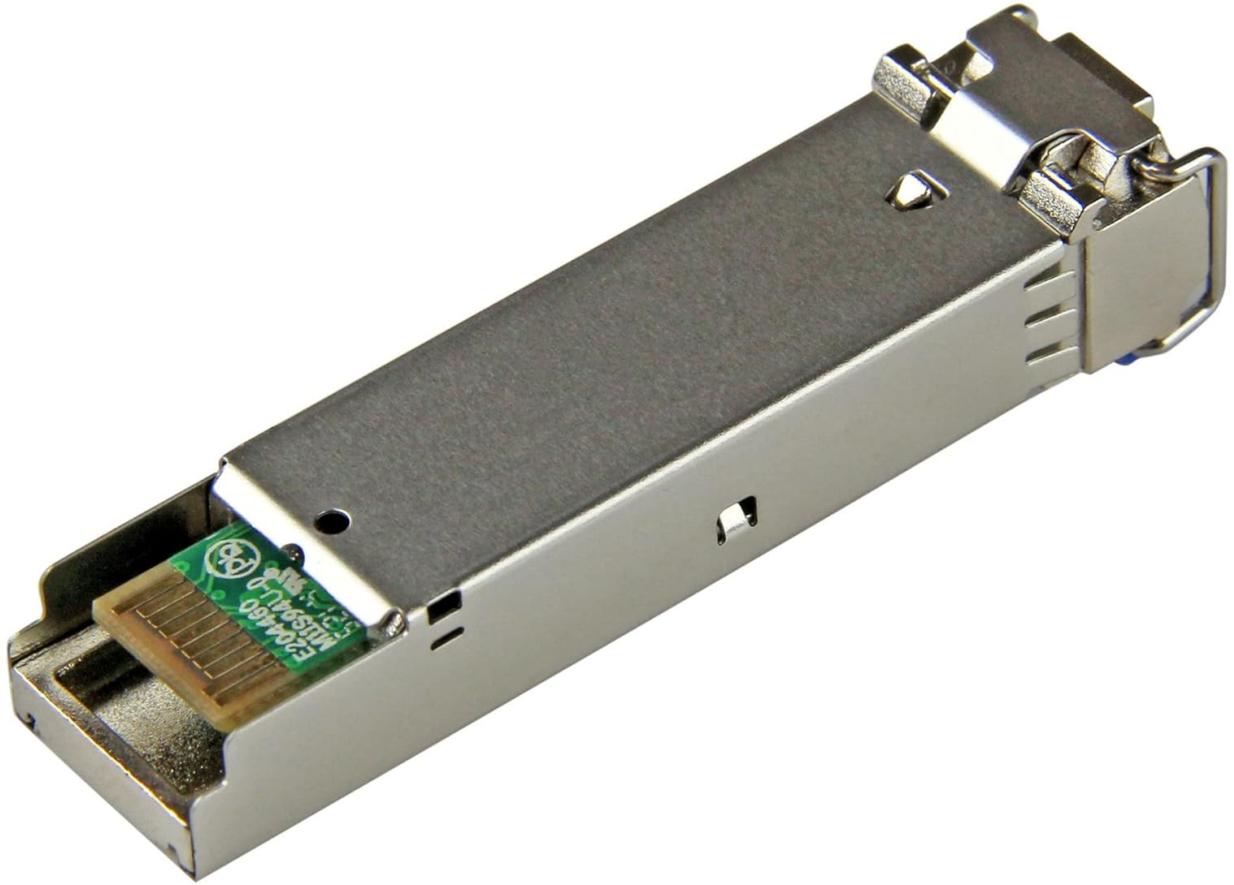


Figure 2: Angled view of the SFP module, highlighting the electrical contacts and the overall form factor.

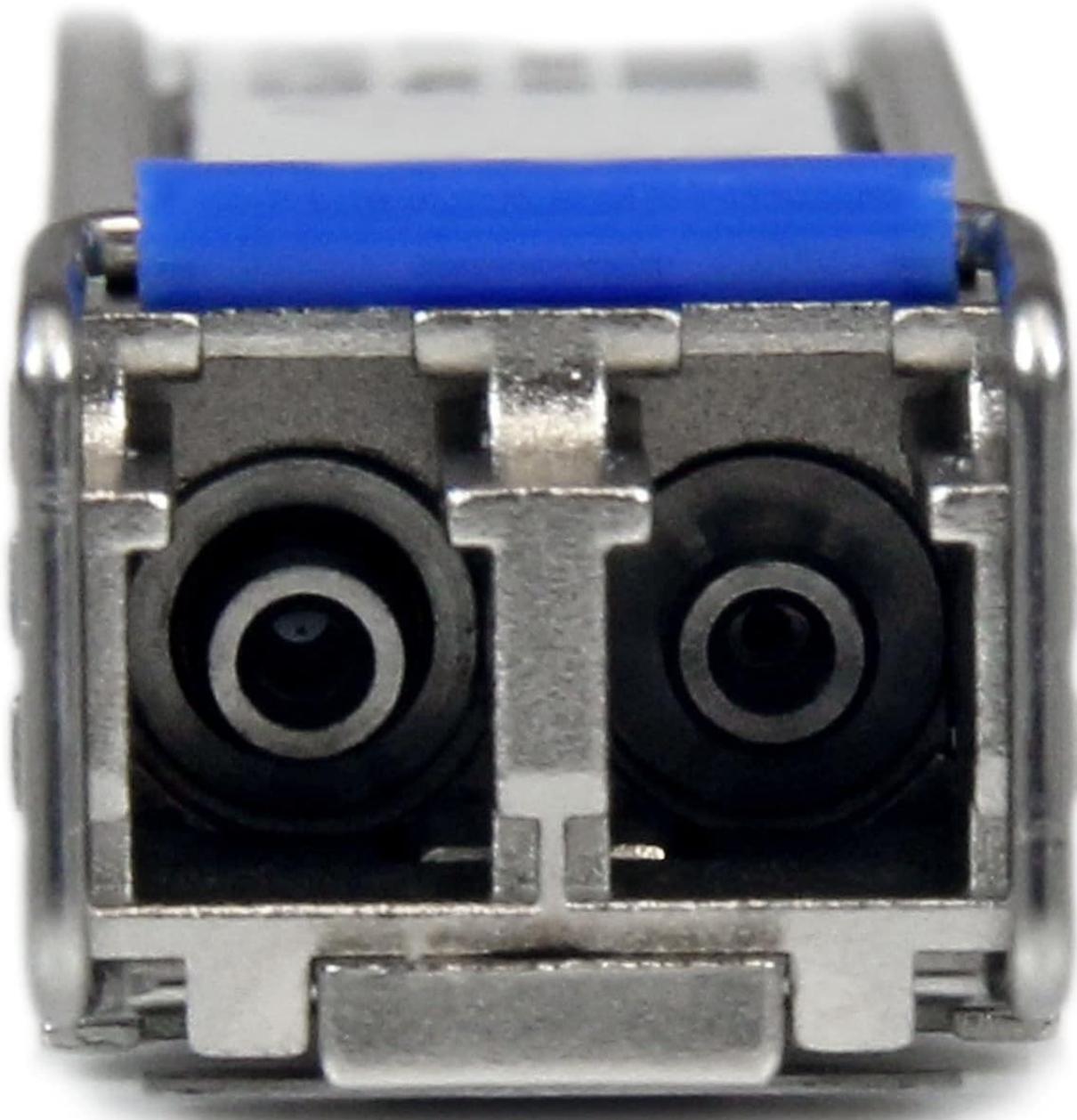


Figure 3: Close-up view of the LC connector end of the SFP module, showing the two fiber ports and the blue pull tab.

3. SETUP AND INSTALLATION

Before installation, ensure your network device (switch or router) is powered off or configured to allow hot-swapping of SFP modules. Refer to your network device's documentation for specific instructions.

1. **Prepare the SFP Slot:** Locate an available SFP slot on your compatible network switch or router.
2. **Insert the SFP Module:** Gently slide the StarTech.com SFP module into the SFP slot until it clicks into place. Ensure the module is fully seated. The module is designed to be hot-swappable, meaning it can be inserted or removed while the host device is powered on, provided the host device supports this feature.
3. **Connect Fiber Optic Cable:** Connect a compatible LC fiber optic cable to the LC connector ports on the SFP module. Ensure the cable is securely connected.
4. **Verify Connection:** Once connected, check the link status indicators on your network device. A solid green or amber light typically indicates a successful link.

Note: Always handle fiber optic cables and SFP modules with care. Avoid touching the optical interfaces to prevent contamination, which can degrade performance.

4. OPERATING INSTRUCTIONS

Once installed and connected, the StarTech.com SFP module operates automatically to provide 1 Gigabit Ethernet connectivity over the fiber optic link.

- **Data Transmission:** The module facilitates high-speed data transmission between your network device and another fiber-connected device.
- **Link Status:** Monitor the LED indicators on your network switch or router to confirm active link status and data activity.
- **Hot-Swappable:** The module can be removed and replaced without powering down the host device, allowing for flexible network maintenance and upgrades.

5. MAINTENANCE

The StarTech.com SFP module requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Keep Connectors Clean:** Regularly inspect and clean the LC fiber optic connectors on both the module and the fiber cable using appropriate fiber optic cleaning tools. Dust and debris can significantly degrade signal quality.
- **Environmental Conditions:** Ensure the operating environment adheres to the specified temperature and humidity ranges (0°C to 70°C, 30~70% RH) to prevent damage.
- **Physical Inspection:** Periodically check the module for any signs of physical damage or loose connections.
- **Storage:** When not in use, store the SFP module in a protective anti-static bag with dust caps on the optical ports.

6. TROUBLESHOOTING

If you encounter issues with your SFP module, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
No Link Light / No Connectivity	<ul style="list-style-type: none">• Module not fully seated.• Incorrect or damaged fiber cable.• Dirty fiber optic connectors.• Incompatible SFP slot or network device.• Incorrect SFP module type (e.g., single-mode vs. multi-mode mismatch).• Far-end device not powered on or misconfigured.	<ul style="list-style-type: none">• Re-insert the SFP module firmly into the slot.• Test with a known good fiber cable.• Clean the fiber optic connectors on both the module and the cable.• Verify the SFP module is compatible with your network device and the specific SFP slot.• Ensure the fiber cable type (SMF/MMF) matches the SFP module and the far-end device.• Check power and configuration of the connected device.

Problem	Possible Cause	Solution
Intermittent Connectivity	<ul style="list-style-type: none"> Loose fiber cable connection. Dirty or damaged fiber optic connectors. Environmental factors (temperature fluctuations). 	<ul style="list-style-type: none"> Ensure fiber cable is securely connected. Clean or replace fiber optic cables and connectors. Ensure the operating environment is within specified limits.
Slow Data Transfer Rate	<ul style="list-style-type: none"> Fiber cable exceeding maximum distance. High signal loss due to dirty connectors or damaged cable. Network congestion. 	<ul style="list-style-type: none"> Verify the fiber link distance is within the module's specifications (up to 20km for SMF). Clean or replace fiber optic cables and connectors. Check network traffic and device configurations.

If the problem persists after trying these steps, contact [StarTech.com](https://www.startech.com) technical support for further assistance.

7. SPECIFICATIONS

Attribute	Detail
Model	SFPGLCLHSMST
Brand	StarTech.com
Connector Type	LC Duplex
Data Transfer Rate	1.25 Gbps (1 Gbps)
Max Transfer Distance	20 km (12.4 mi) - Single Mode
Wavelength	1310nm
Fiber Operating Mode	Half/Full-Duplex
Fiber Type	Single Mode / Multi Mode
Compatible Networks	1000 Mbps (1 Gbps)
Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 85°F)
Humidity	30~70% RH
Power Consumption	<1 W
Dimensions (L x W x H)	60.0 mm x 12.0 mm x 1.0 cm (2.4 in x 0.5 in x 0.4 in)
Weight	20.0 g (0.7 oz)
Industry Standards	IEEE 802.3z 1000BASE-LX/LH
MTBF	3,092,408 hours

8. WARRANTY AND TECHNICAL SUPPORT

8.1 Warranty Information

StarTech.com offers a lifetime warranty on this SFP module. This warranty covers defects in materials and workmanship under normal use. For detailed warranty terms and conditions, please refer to the official StarTech.com website or contact their customer service.

The warranty for this product is **Lifetime**.

8.2 Technical Support

StarTech.com provides free lifetime multilingual technical support for this product. If you require assistance with installation, troubleshooting, or have any questions regarding the SFP module, you can contact their technical advisors.

For technical support, visit the [StarTech.com Support Page](#).