

# Quick Start Guide

## 1000Base-LX/LH SFP Transceiver with DDM, SMF, 1310 nm, 10 km, LC – Cisco GLC-LH-SMD Compatible

Model: N286-01GLCLHSMD

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## **Product Features**

- 1000Base-LX/LH transceiver supports data transfer rates up to 1.25 Gbps
- Transmission distance up to 6 mi. (10 km) when using 8.3/125 singlemode fiber cabling
- Compliant with Common Management Spec SFF-8472 and SFF-MSA
- Supports Digital Diagnostic Monitoring (DDM)
- Full-metal housing emits low EMI
- Hot-pluggable
- Cisco switch compatible

## **Package Includes**

- N286-01GLCLHSMD
- Quick Start Guide

## Optional Accessories

- N370-Series Duplex Singlemode 8.3/125 LC Fiber Cables
- P999-000 Anti-Static Wrist Strap

## Installation

### Notes:

- *SFP transceiver modules are static-sensitive devices that require proper handling. An anti-static ESD wrist strap or similar device should always be used when handling a transceiver module.*
  - *The transceiver module should never be installed with cables already connected. Always remove cables prior to installation to avoid damaging the cable, cable connectors, and/or optical interface.*
  - *Installing and uninstalling the transceiver module numerous times will shorten its useful lifespan. Do not uninstall and reinstall the module more than is absolutely necessary.*
- 1.** Remove the transceiver module from its packaging. Make sure to leave the dust plug inserted in the LC optical bores.

## Installation

- 2.** Gently insert the transceiver module into the module socket of your device. Press the dust plug until it locks into place.
- 3.** Verify the transceiver module is locked into place by trying to remove it from the module socket without releasing the latch. If it stays in place, it is seated properly. If not, reinsert it, firmly pressing on the dust plug until it locks into place.
- 4.** Once you have verified the transceiver module is securely locked in place, remove the dust plug from the LC optical bores and connect your cabling.

**Note:** *Save the dust plug so it can be used in the event the transceiver module needs to be uninstalled and reinstalled.*

## Specifications

|                               |  |
|-------------------------------|--|
| Industry Standards            | IEEE 802.3z Fiber Optic Gigabit Ethernet         |
| Connector Type                | LC Duplex  |
| Maximum Data Transfer Rate    | 1.25 Gbps  |
| Maximum Transmission Distance | 6 mi. (10 km) using 8.3/125 ~ 10/125 SMF Cabling |
| Wavelength                    | 1310 nm  |
| Fiber Operating Mode          | Half/Full Duplex                                 |
| DDM (DOM) Support             | Yes  |
| Dimensions [H x W x D]        | 2.2 x 0.5 x 0.5 in (55 x 13 x 12 mm)             |
| Weight                        | 0.5 oz. (15 g)                                   |
| Operating Temperature         | 32°F to 158°F (0 to 70°C)                        |
| Storage Temperature           | -40°F to 185°F (-40 to 85°C)                     |
| Relative Humidity             | 5 to 85%, Non-Condensing                         |
| Maximum TX Power              | -3 dB  |
| Minimum TX Power              | -9 dB  |
| Sensitivity                   | -20 dB   |
| Power Budget                  | 11 dB  |
| Power Requirement             | 3.3V   |
| Power Consumption             | 1.0 Watt (Max)                                   |

# Warranty and Product Registration

## 3-Year Limited Warranty

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship for a period of 3 years from the date of initial purchase. If the product should prove defective in material or workmanship within that period, Seller will repair or replace the product, at its sole discretion. Service under this Warranty can only be obtained by your delivering or shipping the product (with all shipping or delivery charges prepaid) to: Tripp Lite, 1111 W. 35th Street, Chicago, IL 60609 USA. Seller will pay return shipping charges. Visit [triplite.com/support](http://triplite.com/support) before sending any equipment back for repair.

THIS WARRANTY DOES NOT APPLY TO NORMAL WEAR OR TO DAMAGE RESULTING FROM ACCIDENT, MISUSE, ABUSE OR NEGLIGENCE. SELLER MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY EXPRESSLY SET FORTH HEREIN. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ALL IMPLIED WARRANTIES, INCLUDING ALL WARRANTIES OF MERCHANTABILITY OR FITNESS, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE; AND THIS WARRANTY EXPRESSLY EXCLUDES ALL INCIDENTAL AND CONSEQUENTIAL DAMAGES. (Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from jurisdiction to jurisdiction).

**WARNING:** The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application.

# Warranty and Product Registration

## PRODUCT REGISTRATION

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\* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

## FCC Notice, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

# Warranty and Product Registration

## WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)



Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:

- Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)
- Send the new equipment back for recycling when this ultimately becomes waste

Tripp Lite has a policy of continuous improvement. Product specifications are subject to change without notice.



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