

# Owner's Manual

## 1000M Ethernet Optical Fiber Singlemode Media Converter – 1310 nm, 20 km Model: N785-INT-SC-SM

Este manual esta disponible en español en la página de  
Tripp Lite : [triplite.com/support](http://triplite.com/support)

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## Package Includes

- N785-INT-SC-SM
- International Power Supply (Input: 100-240V)\*
- Owner's Manual

\*Includes NEMA 1-15P (North America), CEE 7/16 Schuko (Europe), BS 1363 (U.K.) and AS/NZS 3112 (Australia) plugs

## Product Features

- Extends your copper Ethernet network beyond the 328 ft. (100 m) limit while maintaining speeds of 1000 Mbps up to 12.4 mi. (20 km)
- Supports IEEE 802.3ab 1000Base-Tx & IEEE 802.3z 1000Base-Fx protocols
- Auto identification of MDI/MDI-X
- Full-duplex and half-duplex mode support
- LED indicators monitor the Ethernet and Fiber link status of the media converters

## Optional Accessories

- N001-Series Cat5e Snagless Patch Cables
- N201-Series Cat6 Snagless Patch Cables
- N356-Series Duplex Singlemode 8.3/125 Fiber Patch Cables (SC/SC)

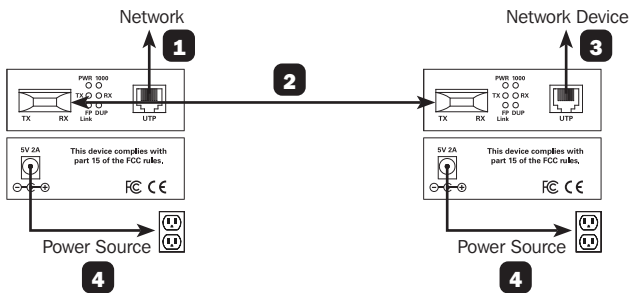
## Installation

**Note:** To avoid damage due to Electrostatic Discharge (ESD), it is recommended you handle the product while wearing an ESD wrist grounding strap or by touching a conductive surface (such as metal) to discharge any potential ESD prior to handling the product.

1. Using a Cat5e/Cat6 cable, connect the RJ45 port on the N785-INT-SC-SM media converter to your network.
2. Using an appropriate fiber cable, connect the N785-INT-SC-SM media converter to a second N785-INT-SC-SM or another identical (1310 nm/singlemode/1000M/20 km) media converter, ensuring the TX port of one unit is connected to the RX port of the other. Tripp Lite's N356-Series Duplex Singlemode 8.3/125 (SC/SC) cables are recommended.

**Note:** Simplex singlemode 9/125 fiber patch cables are also supported. Two simplex cables are required for each installation.

3. Using a Cat5e/Cat6 cable, connect the RJ45 port on the second N785-INT-SC-SM media converter to your network device (workstation, hub, switch, etc).
4. Connect the included external power supplies to each media converter.



# Installation

## LED Status Table

LED	Function	Status	Description
DUP	UTP port duplex LED	ON	Unit is operating in Full-Duplex Mode
		OFF	Unit is operating in Half-Duplex Mode
FP-LINK	Fiber port link/action status LED	ON	Fiber signal/link is detected
		OFF	No fiber signal/link is detected
PWR	Power LED	ON	Unit is powered ON
		OFF	Unit is not powered ON
RX	UTP port link/action status LED	ON	UTP link is detected
		Blinking	UTP data transmission is taking place
		OFF	No UTP link is detected
1000	UTP port speed LED	ON	1000 Mbps speed
		OFF	No 1000 Mbps speed
TX	Fiber port link/action status LED	ON	A link is detected between the connected fiber ports
		Blinking	Fiber data transmission is taking place
		OFF	No link is detected between fiber ports

## Specifications

Optical Wavelength	Singlemode (1310 nm)
Optical Ports	SC
Network Speed	1000 Mbps
Transmission Distance	Singlemode Duplex Fiber (1310 nm): 12.4 mi. / 20 km
Duplex Mode	Full / Half (Auto-Detect)
Optical Output Power Range (dBm)	-9 to -3
Optical Input Power Range (dBm)	< -22
Power Budget (dBm)	7
Operating Temperature Range	32° to 122°F / 0° to 50°C
Storage Temperature Range	-4° to 158°F / -20° to 70° C
Relative Humidity	5% to 90% RH, Non-Condensing
Unit Dimensions	1.02 x 3.7 x 2.76 in. / 26 x 93 x 70 mm
Unit Weight	0.4 lb. / 0.18 kg

# Warranty and Product Registration

## 2-Year Limited Warranty

TRIPP LITE warrants its products to be free from defects in materials and workmanship for a period of two (2) years from the date of initial purchase. TRIPP LITE's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material Authorization (RMA) number from TRIPP LITE or an authorized TRIPP LITE service center. Products must be returned to TRIPP LITE or an authorized TRIPP LITE service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment, which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

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

## 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

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended.

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



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