# Owner's Manual

## 10/100
## Media Converters

**Models: N784-001-SC-MM (850nm),
N784-001-SC-15 (1310nm)**

## 10/100/1000
## Media Converters

**Models: N785-001-LC-MM (850nm),
N785-001-SC-MM (850nm),
N785-001-SC (1310nm)**

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## Product Features

• N784-001-SC-15 extends a 10/100Mbps Ethernet connection over singlemode fiber cable up to 15 km

• N784-001-SC-MM extends a 10/100Mbps Ethernet connection over multimode fiber cable up to 550 m

• N785-001-SC extends a 10/100/1000Mbps Ethernet connection over multimode fiber cable up to 2 km

• N785-001-LC-MM and N785-001-SC-MM extend a 10/100/1000Mbps Ethernet connection over multimode fiber cable up to 550 m

• LED indicators monitor the Ethernet and fiber link status of the media converters

• Supports both full-duplex and half-duplex operation

• Supports Auto MDI / MDI-X

## Package Contents

• Media Converter

• External Power Supply

• Owner's Manual

## Optional Accessories

- N001-Series Cat5e Snagless Patch Cables
- N201-Series Cat6 Snagless Patch Cables
- N306-Series Duplex Multimode 62.5/125 Fiber Patch Cables (SC/SC)
- N320-Series Duplex Multimode 62.5/125 Fiber Patch Cables (LC/LC)
- N356-Series Duplex Singlemode 8.3/125 Fiber Patch Cables (SC/SC)
- N506-Series Duplex Multimode 50/125 Fiber Patch Cables (SC/SC)
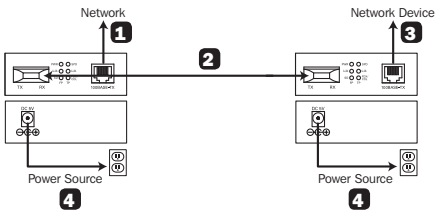- N520-Series Duplex Multimode 50/125 Fiber Patch Cables (LC/LC)

## Installation

***Note:***

*1. The following installation instructions refer to an installation in which two media converters are used.*

*2. The installation diagram on the next page features a N784-001-SC-MM. Connections are the same for all models, with only the specs of the media converter being different. (See the Specifications section in this manual for details on your media converter.)*

*3. To avoid damage due to Electrostatic Discharge (ESD), it is recommended that 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.*

## Installation

**1** Connect the RJ45 port on the media converter to your network using a Cat5e/6 cable.

**2** Connect the media converter to a second identical media converter using the appropriate type of fiber cable, making sure to connect the TX port on one unit to the RX port on the other.
*Note: Reference the Product Features section to determine which type of fiber cable is supported by your media converter.*

**3** Connect the RJ45 port on the second media converter to your network device (workstation, hub, switch, etc.) using a Cat5e/6 cable.

**4** Connect the external power supplies that came with each media converter, and plug them into a power source.



**4**

## LED Status Table

| LED | Status | Description |
|-----|--------|-------------|
| FP – PWR | On | The unit is powered on |
| FP – PWR | Off | The unit is not powered on |
| FP – L/A | On | A link is detected between the connected fiber ports |
| FP – L/A | Blinking | Fiber data transmission is taking place |
| FP – L/A | Off | No link is detected between fiber ports |
| FP – SD | On | A fiber signal is detected |
| FP – SD | Off | No fiber signal is detected |
| TP – SPD | On | 1000Mbps (or 100Mbps)* |
| TP – SPD | Off | 100Mbps (or 10Mbps)* |
| TP – L/A | On | A UTP link is detected |
| TP – L/A | Blinking | UTP data transmission is taking place |
| TP – L/A | Off | No UTP link is detected |
| TP – FDX/COL | On | The unit is operating in Full-Duplex mode |
| TP – FDX/COL | Off | The unit is operating in Half-Duplex mode |

*10/100 Media Converter description is shown in parenthesis.*

**5**

## Specifications

| Specification | N784-001-SC-MM | N784-001-SC-15 |
|---|---|---|
| Optical Wavelength (nm) | Multimode (850) | Singlemode |
| Network Speed | 10/100 | |
| Transmission Distance | 550 m | 15 k |
| Duplex Mode | | |
| Optical Output Power Range (dBm) | -8 to -3 | -15 to |
| Optical Input Power Range (dBm) | ≤-19 | ≤-34 |
| Power Budget (dBm) | 11 | 19 |
| Power Supply Input | | |
| Power Supply Output | | |
| Operating Temperature | | |
| Storage Temperature | | |
| Relative Humidity | | |
| Unit Dimensions (HxWxD) | 25.4 | |
| Unit Weight | 0.45 kg (1 lb) | |

| | N785-001-LC-MM | N785-001-SC-MM | N785-001-SC |
|---|---|---|---|
| (1310) | Multimode (850) | | Multimode (1310) |
| | 10/100/1000 | | |
| m | 550 m | | 2 km |
| | Full / Half (Auto-Detect) | | |
| -3 | -8 to -3 | | |
| 4 | ≤-19 | | |
| | 11 | | |
| | 100-240V, 50/60Hz | | |
| | 5V, 1.2A | | |
| | 0° to 60° C (32° to 140° F) | | |
| | -20° to 70° C (-4° to 158° F) | | |
| | 5 to 90% RH, Non-Condensing | | |
| x 93.98 x 71.12 mm (1 x 3.7 x 2.8 inches) | | | |
| | 0.47 kg (1.03 lb) | 0.45 kg (1 lb) | |

# Warranty & Product Registration

**1-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 1 year 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, in 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.

THIS WARRANTY DOES NOT APPLY TO NORMAL WEAR OR TO DAMAGE RESULTING FROM ACCIDENT, MISUSE, ABUSE OR NEGLECT. 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 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 this device for any specific application.

**8**

# Warranty & Product Registration

**PRODUCT REGISTRATION**

Visit www.tripplite.com/warranty today to register the warranty for your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!*

* 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.

## Warranty & Product Registration

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

**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. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

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

**Notes**

**1111 W. 35th Street, Chicago, IL 60609 USA**
**www.tripplite.com/support**

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