

Quick Start Guide

Industrial Gigabit Copper to FiberMedia Converter, Unmanaged, RJ45/SFP

Model: N785-I01-SFP-DU

Este manual está disponible en español en la página de Tripp Lite:
tripplite.com

Ce manuel est disponible en français sur le site Web de Tripp Lite :
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WARRANTY REGISTRATION

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Product Features

- Extends a Gigabit Ethernet connection to an open SFP port with no software or additional configuration
- Industrial housing withstands a wide range of operating temperatures from -40° to 75°C
- Provides ESD, RFI and surge protection
- IP30 rating guarantees protection from tools and wires greater than 2.5 mm
- Open SFP port works with a variety of SFP transceivers
- Can be powered using the included terminal block or a user-provided 12V DC power adapter
- Auto MDI/MDI-X functionality removes the need for crossover cabling

Package Contents

- N785-I01-SFP-DU Media Converter
- Terminal Block (20~57VDC)
- DIN Rail Kit
- RJ45 Cap
- SFP Cap
- Quick Start Guide

Optional Accessories

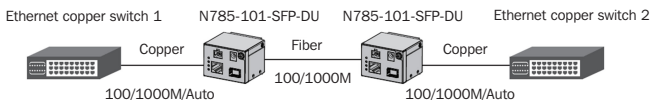
- N001-Series Cat5e Snagless Ethernet Cables
- N201-Series Cat6 Snagless Ethernet Cables
- N286-Series Transceivers

Installation

Copper to Copper Installation

Notes:

- The following installation instructions refer to an installation in which two media converters are used to increase the maximum distance between two copper switches.
- To effectively communicate between media converters, the speeds of the copper and fiber ports of each media converter should be identical. The diagram and table below show the speed you should use between media converters and switches, as well as which LED will illuminate with respect to that speed.



1. **Optional:** Connect the included DIN Rail Kit to the unit using the included mounting hardware.
2. Connect the RJ45 port of an unmanaged copper Ethernet switch to the RJ45 port of the first N785-I01-SFP-DU media converter with a user-supplied Cat5e/6 cable.
3. Connect a transceiver to the first media converter's open SFP port.
4. Connect fiber cabling matching the transceiver type between the transceiver's port and a matching transceiver connected to a second N785-I01-SFP-DU media converter.

Installation

5. Connect the RJ45 port of a second unmanaged copper Ethernet switch to the RJ45 port of the second N785-I01-SFP-DU media converter with a user-supplied Cat5e/6 cable.
6. Connect the 12~57VDC terminal block or optional 12V DC power supply to the media converters, and plug them into an available wall outlet, Uninterruptible Power Supply (UPS) or Power Distribution Unit (PDU).
7. When all connections have been made, check the “L/A (Link/Activity)” LED to confirm the connection has been established.

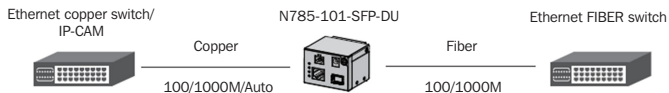
Item	Copper Switch #1 Setting	SFP Type	Copper Switch #2 Setting	LED Displayed
1	Auto (100/1000 Mbps)	GbE	Auto (100/1000 Mbps)	1000
2	Auto (100/1000 Mbps)	FX	Auto (100/1000 Mbps)	100
3	Auto (100 Mbps)	FX	Auto (100 Mbps)	100
4	1G (Force)	GbE	1G (Force)	1000
5	100F (Force)	FX	100F (Force)	100
6	100H (Force)	FX	100H (Force)	100

Installation

Copper to Fiber Installation

Notes:

- The following installation instructions refer to an installation in which one media converter is used to increase the maximum distance between a copper switch and a fiber switch.
- To effectively communicate between media converters, the speeds of the copper and fiber ports of each media converter should be identical. The diagram and table below show the speed you should use between media converters and switches, as well as which LED will illuminate with respect to that speed. The diagram also shows how one media converter can be used to increase the distance between a copper switch and a fiber switch.



1. Optional: Connect the included DIN Rail Kit to the unit using the included mounting hardware.
2. Connect the RJ45 port of an unmanaged copper Ethernet switch to the RJ45 port of the N785-101-SFP-DU media converter with a user-supplied Cat5e/6 cable.
3. Connect a transceiver to the media converter's open SFP port.
4. Connect fiber cabling matching the transceiver and switch type between the transceiver's port and an unmanaged fiber Ethernet switch.

Installation

5. Connect the 12~57VDC terminal block or optional 12V DC power supply to the media converter, and plug it into an available wall outlet, Uninterruptible Power Supply (UPS) or Power Distribution Unit (PDU).
6. When all connections have been made, check the “L/A (Link/Activity)” LED to confirm the connection has been established.

Item	Copper Switch #1 Setting	SFP Type	Fiber Switch Setting	LED Displayed
1	Auto (100/1000 Mbps)	GbE	GbE	1000
2	Auto (100/1000 Mbps)	FX	FX	100
3	Auto (100 Mbps)	FX	FX	100

Specifications

Specification	N785-I01-SFP-DU
Optical Wavelength	N/A (Open SFP, depends on transceiver)
Network Speed	100/1000 Mbps (Gigabit)
Mode	N/A (Open SFP, depends on transceiver)
Transmission Distance	N/A (Open SFP, depends on transceiver)
Duplex Mode	Auto MDI/MDI-X
IEEE Standards Supported	802.3u 100Base-TX/FX 802.3ab 1000Base-T 802.3z 1000Base-SX/LX
Power Consumption	6W
Power Supply Input	12~57VDC (Terminal Block) or 12V DC (DC Power Supply)
Operating Temperature	-40° to 167°F (-40° to 75°C)
Storage Temperature	-40° to 185°F (-40° to 85°C)
Relative Humidity	5% to 95% RH, Non-Condensing
Unit Dimensions (H x W x D)	2 x 1.7 x 2.4 in. / 5 x 4.25 x 6.1 cm

Safety Instructions

Ensure the correct power voltage is being used before operating this product. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure that you are using the correct voltage. Do not use a voltage greater than what is specified on the product label. Failing to adhere to the maximum allowable voltage can lead to overheating wiring, which can cause serious damage to your equipment or fire hazards.

LED Status Table

LED	Status	Description
PWR (Green)	On	Power is on
	Off	Power is off or experiencing failure
L/A (Link/Activity, Green)	On	Ethernet (RJ45) link is up
	Blinking	Activity (transmitting/receiving data)
	Off	Port disconnected or link failed
100 (Green)	On	Both RJ45 and SFP link speed set at 100 Mbps
	Off	Either RJ45 or SFP is not linked correctly at 100 Mbps speed
1000 (Green)	On	Both RJ45 and SFP link speed set at 1000 Mbps
	Off	Either RJ45 or SFP is not linked correctly at 1000 Mbps speed

Warranty and Product Registration

2-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 two (2) 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.

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.

Product Registration

Visit tripplite.com/warranty today to register 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.

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. Photos and illustrations may differ slightly from actual products.



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