

Quick Start Guide

Industrial Gigabit Copper to Fiber Media Converter, RJ45/SFP

Model: N785-I01-SFP-D

Este manual está disponible en español en la página de Tripp Lite:
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Ce manuel est disponible en français sur le site Web de Tripp Lite :
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Product Features

- Extends a Gigabit Ethernet connection to an open SFP port
- 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
- LEDs indicate Ethernet connection and fiber link status
- DIP switches control Local Loop Back testing (LLB), Link Fault Signaling (LFS), Reserve and FX100 functions
- Link Fault Signaling (LFS) LED indicates when a cable has been severed or another cause for disruption has occurred
- Line Loop Back (LLB) tests both both copper and fiber network connections
- Auto MDI/MDI-X functionality removes the need for crossover cabling

Package Contents

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

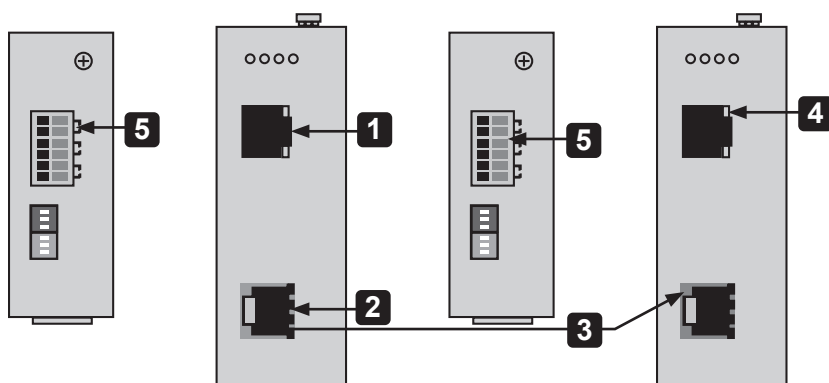
Optional Accessories

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

Installation

Notes:

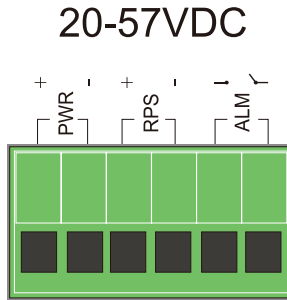
- The following installation instructions refer to an installation in which two media converters are used.
- To avoid damage due to Electrostatic Discharge (ESD), it is recommended you handle the product while wearing an ESD wrist grounding strap or by touching a conductive surface (such as metal) to discharge any potential ESD prior to handling the product.



- 1** Connect the RJ45 port on the media converter to your network with a user-supplied Cat5e/6 cable.
- 2** Connect a transceiver to the open SFP port on the media converter.
- 3** Connect fiber cabling matching the transceiver type to the transceiver's port and to a second media converter with a matching transceiver.
- 4** Connect the RJ45 port on the second media converter to your network device (workstation, hub, switch, etc.) using a Cat5e/6 cable.
- 5** Connect 20~57VDC power properly to PWR and RPS (Terminal Block). Connect Alarm Relay output (ALM) to Alarm System.

Wiring the Redundant Power Inputs

You can use “Terminal Block (PWR)” for primary power and “Terminal Block (RPS)” for secondary power and to be a redundant power input. The power input diagram is as follows:



Insert the terminal block connector accessory, which includes “PWR” and “RPS,” into the terminal block receptor.

LED Status Table

LED	Status	Description
PWR (Green)	ON	Primary power is on
PWR (Green)	OFF	Primary power is off or experiencing failure
RPS (Green)	ON	Redundant (secondary) power is on
RPS (Green)	OFF	Redundant (secondary) power is off or experiencing failure
ALM (Red)	ON	Alarm for following conditions: LFS (Link Fault Signaling) or power loss
ALM (Red)	OFF	Normal operation, no LFS alarm or power loss
RJ45		
1000M (Green)	ON	Copper connection up to 1000 Mbps
1000M (Green)	OFF	Copper connection speed at 10/100 Mbps
LNK/ACT (Green)	ON (Blinking)	Copper port correctly linked
LNK/ACT (Green)	OFF	Copper port link failure
SFP		
SFP (Green/Amber)	ON	Ethernet link-up - Green: connection speed 1000 Mbps - Amber: connection speed 100 Mbps
	ON (Blinking)	Activity (receiving or transmitting data)
	OFF	Port disconnected or link failed

DIP Switch Settings

DIP Switch Settings		
Number	Label	Description
1	LLB	ON: LLB is enabled OFF: LLB is disabled
2	LFS	ON: LFS is enabled OFF: LFS is disabled
3	FX100	ON: Port 2 (SFP) speed at 100 Mbps OFF: Port 2 (SFP) speed at 1000 Mbps
ALM (Alarm) DIP Switch Settings		
4	PWR	ON: Master power alarm reporting is enabled OFF: Master power alarm reporting is disabled
5	RPS	ON: Redundant power alarm reporting is enabled OFF: Redundant power alarm reporting is disabled
6	LFS	ON: Alarm for LFS issue is triggered OFF: Alarm LFS is disabled

Link Fault Signaling (LFS)

When the LFS DIP switch is enabled (#6), an alarm indicator will illuminate to indicate when a cable has been severed or when some other cause of disruption in service has occurred. The LFS function monitors both copper and fiber segments for a total service report.

Line Loop Back Test (LLB)

Set DIP Switch 1 to “ON” to activate the LLB diagnostic test function. Use the LLB function to check if the copper and fiber and fiber segments are connected properly.

Specifications

Specification	N785-I01-SFP-D
Network Speed	10/100/1000 Mbps (Gigabit)
Duplex Mode	Auto MDI/MDI-X
IEEE Standards Supported	802.3 10Base-T 802.3u 100Base-TX/FX 802.3ab 1000Base-T 802.3z 1000Base-SX/LX 802.3x Flow Control 802.3 Auto-Negotiation
Power Consumption	6W
Power Supply Input	20~57VDC (Terminal Block)
Operating Temperature	-40° to 167°F (-40° to 75°C)
Storage Temperature	-40° to 185°F (-40° to 85°C)
Operating Humidity	10% to 95% RH, Non-Condensing
Storage Humidity	5% to 95% RH, Non-Condensing
Unit Dimensions (H x W x D)	2 x 4.7 x 4.1 in. / 5 x 12 x 10.4 cm

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.

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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.

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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