# Quick Start Guide

# Hardened Gigabit Copper to Fiber Media Converter, RJ45/SFP

**Model: N785-H01-SFP-D**

**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 : tripplite.com**

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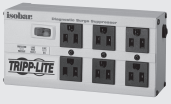

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# Product Features

- Extends a Gigabit Ethernet connection to an open SFP port
- Hardened material allows the media converters to withstand high operating temperatures and provide ESD/RFI and surge protection
- Open SFP port allows for a variety of SFP transceivers to be used
- LED indicators monitor Ethernet and fiber link status
- DIP switches allow for Line Loop Back (LLB), Link Fault Signaling (LFS), and Reserve and FX100 functions
- Link Fault Signaling (LFS) LED will immediately illuminate to indicate when a cable has been severed or another cause for disruption has occurred
- Line Loop Back (LLB) tests the copper network connection
- Auto MDI/MDI-X functionality removes the need for crossover cabling

# Package Contents

- Media Converter
- Terminal Block (20-57V DC)
- DIN Rail Kit
- RJ45 Cap
- SFP Cap
- Quick Start Guide

# Optional Accessories

- N001-Series Cat5e Snagless Patch Cables
- N201-Series Cat6 Snagless Patch 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. Using Cat5e/6 cable, connect the RJ45 port on the media converter to your network.
2. Connect a transceiver (such as Tripp Lite's N286-Series) to the open SFP port on the media converter. Then connect fiber cabling matching the transceiver type to the transceiver's port, as well as a second matching transceiver and media converter.
3. Using Cat5e/6 cable, connect the RJ45 port on the second media converter to your network device (workstation, hub, switch, etc.).
4. Connect the external power supplies included with each media converter and plug them into a power source.

# DIP Switch Function and LED Status Table

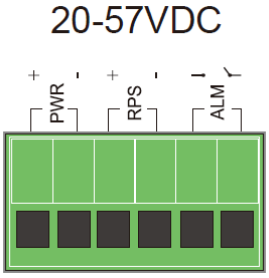
| DIP Switch Setting | | |
|---|---|---|
| **Switch Number** | **Label** | **Description** |
| 1 | LLB | ON: LLB is enabled<br>OFF: LLB is disabled |
| 2 | LFS | ON: LFS is enabled<br>OFF: LFS is disabled |
| 3 | FX100 | ON: Port 2 (SFP) speed at 100 Mbps<br>OFF: Port 2 (SFP) speed at 1000 Mbps |
| **Switch Category: ALM (Alarm)** | | |
| 4 | PWR | ON: Master power alarm reporting is enabled<br>OFF: Master power alarm reporting is disabled |
| 5 | RPS | ON: Redundant power alarm reporting is enabled<br>OFF: Redundant power alarm reporting is disabled |
| 6 | LFS | ON: Alarm for LFS issue is enabled<br>OFF: Alarm for LFS is disabled |
| **LED Indicators** | | |
| PWR (Green) | ON | Primary power is on |
| PWR (Green) | OFF | Primary power 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) alarm; power loss |
| ALM (Red) | OFF | Normal operation, no LFS alarm or power loss |

# DIP Switch Function and LED Status Table

| | | |
|---|---|---|
| **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<br>- Green: Speed 1000 Mbps<br>- Amber: Speed 100 Mbps |
| | ON (Blinking) | Activity (receiving or transmitting data) |
| | OFF | Port disconnected or link failed |

# Wiring Redundant Power Inputs

You can use “Terminal Block (PWR)” for primary power and “Terminal Block (RPS)” for secondary power/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.

## 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.

# Specifications

| | |
|---|---|
| Optical Wavelength | N/A |
| Network Speed | 10/100/1000 Mbps (Gigabit) |
| Mode | N/A (Open SFP) |
| Transmission Distance | N/A (Open SFP) |
| Duplex Mode | Auto MDI/MDIX |
| IEEE Standards Supported | - 802.3 10Base-T<br>- 802.3u 100Base-TX/FX<br>- 802.3ab 1000Base-TX<br>- 802.3z 1000Base-SX/LX<br>- 802.3x Flow Control<br>- 802.3 Auto-Negotiation |
| Power Consumption | 5.5W |
| Power Supply Input | 20 ~ 57V DC (Terminal Block) |
| Operating Temperature | 14 to 140°F / -10 to 60°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] | 1.97 x 4.57 x 3.94 in. /<br>5 x 11.6 x 10 cm |

# Warranty and Product Registration

## 2-YEAR LIMITED WARRANTY

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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.

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