Owner's Manual

TRIPP LITE
SERIES

Industrial RJ45 to SPE Media Converter

Model:
N785-001-SPE



Purchased product may differ from image.

Este manual está disponible en español en la página de Eaton:
Tripplite.Eaton.com/support

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Package Contents

- N785-001-SPE Industrial RJ45 to SPE Media Converter
- DIN Rail-Mounting Kit
- Terminal Block (x2)
- RJ45 CAP
- User Documentation

Optional Accessories

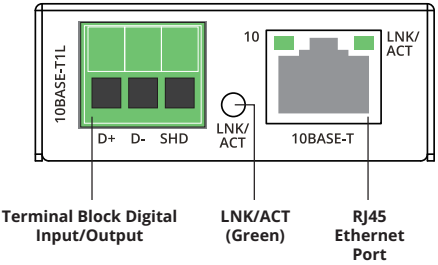
- N001-Series Cat5e 350 MHz Snagless UTP Cables
- N002-Series Cat5e 350 MHz UTP Ethernet Cables
- N200-Series Cat6 Gigabit Molded UTP Ethernet Cables
- N201-Series Cat6 Gigabit Snagless Molded UTP Ethernet Cables

Product Features

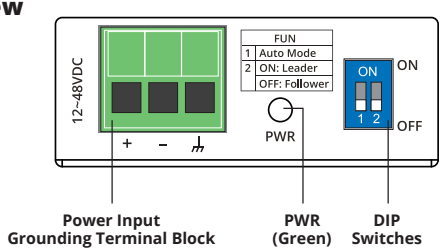
- Seamlessly integrates into industrial control networks
- Metal housing with IP30 protection
- Includes 10BASE-T1L SPE port and 10BASE-T RJ45 port
- Dedicated LED indicators
- DIP switch configuration
- Supports Auto mode and manual Primary/Secondary selection
- Wide operating temperature range

Product Overview

Front View



Rear View



DIN-Rail Mounting and Dismounting Instructions

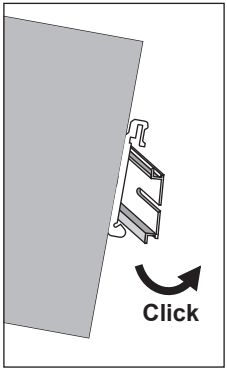
ATTENTION: This converter is an open-type device and shall be DIN-rail mounted or wall mounted (optional) in a cabinet or rack enclosure. The ambient temperature should not exceed 75°C (167°F).

Mounting the Converter

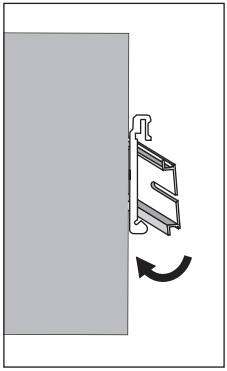
Place the converter on the DIN rail from above using the built-in slot. Push the front of the converter toward the mounting surface until it snaps into place. You will hear a "click" to indicate it has successfully snapped into place.

Dismounting the Converter

Press the converter from the top, then pull out the lower edge of the converter to remove it from the DIN rail.



Mounting the converter



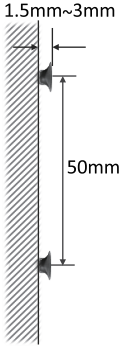
Removing the converter

ATTENTION: A corrosion-free DIN mounting rail is advisable. When mounting the converter, be sure to allow enough space between devices to install the cabling and to ensure proper airflow.

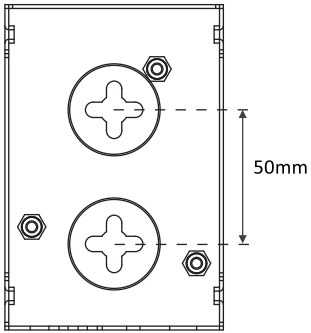
DIN-Rail Mounting and Dismounting Instructions

Wall-Mounting Installation

1. Mount the converter by using mounting holes on the wall at the appropriate places.



Screw installation distance



Mounting holes

2. The converter can be wall mounted either vertically or horizontally.

Grounding the Converter

Grounding and wire routing help limit the effects of line noise caused by electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface, then connect the ground connection from the terminal block to the grounding surface prior to connecting devices.

ATTENTION: This converter is intended for mounting on a well-grounded surface, such as a metal panel.

Wiring Requirements



WARNING: Safety measures should be taken before connecting the power cable. Turn off the power before connecting modules or wires. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure you are using the correct voltage. DO NOT use a voltage greater than what is specified on the product label. Calculate the maximum possible current in each power wire and common wire. Confirm all electrical codes dictating the maximum current allowable for each wire size. If current exceeds the maximum rating, the wiring can overheat causing serious damage to your equipment.

Please read and follow these guidelines:

- Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross, make sure the wires are perpendicular at the intersection point.

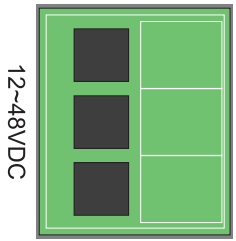
  Note: *Do not run signal or communications wiring and power wiring through the same wire conduit. To avoid interference, wires with different signal characteristics should be routed separately.*

- You can use the type of signal transmitted through a wire to determine which wires should be kept separate. Wiring that shares similar electrical characteristics can be bundled together.
- You should separate input wiring from output wiring.
- Be advised that you should label the wiring to all devices in the system.

Wiring Power Input

Wiring Requirements

Use "PWR" for power input. Top view of the Terminal Block is shown in the figure below:



Terminal Block

CAUTION:

- Use copper conductors only.
- Wiring cable temperature should support at least 105˚C (221˚F).
- Tighten the wire to a torque value of 5 lb.
- The wire gauge for the terminal block should range between 12~24 AWG.

To insert the power wire and connect the specified voltage and maximum electric current to the terminal block, follow the steps below:

- Use a flathead screwdriver to loosen the wire-clamp screws.
- Insert the negative/positive DC wires into the (- / +) terminals, respectively.
- Tighten the wire-clamp screws to prevent the wires from loosening.

ATTENTION: Use a power supply from 12~48V DC, 0.5A maximum. The device power shall be supplied by an SELV circuit.

Cabling

Connect one end of an RJ45 Ethernet cable (see Optional Accessories) into the switch's RJ45 Ethernet port. Connect the other end to a network device. Cat5e cable or above is recommended.

- 10Base-T port

DIP Switch Settings and Reset Button



ON

OFF

Switch	Position	Setting
1	ON	Auto mode (default)
	OFF	Manual mode (can be set via DIP switch 2)
2	ON	Sets device as the Leader
	OFF	Sets device as the Follower

Note: *After changing the DIP switch setting, unplug and reconnect the power source to activate the new setting.*

LED Indicators

Power	PWR (Green)	Illuminated	Primary power on
		Off	Primary power failure or not available
10Base-T	10 (Green)	Solid	Link speed at 100 Mbps
		Off	Link speed at 10 Mbps
	LNK/ACT (Green)	Illuminated	Copper port link-up
		Blinking	Data is transmitting / receiving
		Off	Link failed
10Base-T1L	LNK/ACT (Green/Amber)	Solid (Green)	Port link-up with good signal quality
		Solid (Amber)	Port link-up with poor signal quality
		Blinking	Activity (receiving or transmitting data)
		Off	Port disconnected or link failed

Specifications

Power	
Input Voltage	Single power input 12~48V DC/0.5A
Connection	3-pin terminal block
Reverse Polarity Protection	Present
Power Consumption (System Only)	3W
Grounding Screw	Present
Interface	
RJ45	1 x 10Base-T Port 1 x 10Base-T1L Port
DIP Switch	Auto, Leader/Follower
LED	PWR (Green): Power 100 (Green): Ethernet speed at 100 Mbps LNK/ACT (Green): Port transmitting/ receiving LNK/ACT (Green/Amber): Ethernet link-up with good/poor signal quality
Physical	
Housing	Metal (IP30 protection)
Dimensions	86.2 x 23.4 x 59.4 mm (3.4 x 0.9 x 2.3 in.)
Weight	205.5 g (0.45 lb.)
Environmental	
Operating Temperature	-40°C to 75°C (-40°F to 167°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Operating Humidity	5 to 95% (Non-Condensing)
Storage Humidity	5 to 95% (Non-Condensing)
Operating Altitude	2000 m

Specifications

Standards	
IEEE802.3	10BASE-T 10BASE-T1L (Compliant)
FCC/ICES	47 CFR FCC PART 15 SUBPART B (Class A) ICES-003 Issue 7 (Class A)
Safety (USA, Canada)	CAN/CSA-C22.2 No. 61010-1 CAN/CSA-C22.2 No. 61010-2-201 UL 61010-1 UL 61010-2-201

ATTENTION: If the switch is used in a manner not specified here, the protection provided by the switch may be impaired.

Warranty

3-Year Limited Warranty

We warrant our products to be free from defects in materials and workmanship for a period of three (3) years from the date of initial purchase. Our obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. Visit Tripplite.Eaton.com/support/product-returns before sending any equipment back for repair. 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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EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL WE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, we are not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise.

PRODUCT REGISTRATION

Visit Tripplite.Eaton.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

WEEE Compliance Information for 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 Eaton, 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

FCC Notice, Class A

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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. The user must use shielded cables and connectors with this equipment. Any changes or modifications to this equipment not expressly approved by Eaton could void the user's authority to operate this equipment.

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.

Eaton 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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