TRENDNET®

Quick Installation Guide

1000Base-SX/LX Fiber Converters

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1. Avant de commencer

Contenu de l'emballage

- Convertisseur fibre
- Guide d'installation rapide
- Alimentation AC (7,5 DC, 1,5A)

Configuration minimale

- Un environnement exempt de toute source de génération de champ électromagnétique fort (comme les moteurs), de vibration, de poussières et veillez à ce qu'il ne soit pas directement exposé aux rayons du soleil.
- Châssis TFC-1600 (non fourni) ou une surface plane pouvant supporter le poids de du convertisseur fibre
- Switch Ethernet 10/100Mbps
- Câbles fibres multi-mode ou monomode
- Câble Ethernet RJ-45 CAT-5 our CAT-6

Détails du produit

Model Name	Multi/Single-Mode	Fiber Connector	
TFC-1000MSC	Multi-Mode	SC (Duplex)	
TFC-1000S20	Single-Mode		
TFC-1000S50			
TFC-1000S70			
TFC-1000S10D3	Single-Mode Bidirectional	SC (Simplex)	
TFC-1000S10D5			

Installation de 2 convertisseurs fibre autonomes

1. Branchez le câble fibre aux convertisseurs fibre. Ce câble doit être multi-mode pour le TFC-1000MSC et monomode pour le TFC-1000S20/S50/S70/S10D3/S10D5.

2. Branchez un câble Ethernet RJ-45 ente le port Ethernet des convertisseurs de fibre et le port Ethernet de votre switch (e.g TEG-S160TX ou TEG-S240TX).

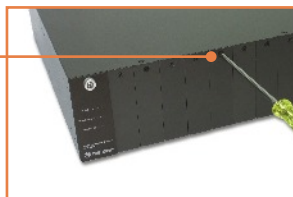**3.** Branchez l'adaptateur secteur à l'arrière du convertisseur fibre.

Remarque: Les câbles TX et RX doivent être inversés par rapport à la connexion fibre opposée.

Remarque: Le TFC-1000S10D3 doit être appareillé avec le TFC-1000S10D5.

Installation d'un convertisseur media dans un châssis

4. Dévissez le cache baie de la baie choisie sur le châssis.

5. Desserrez la vis à molette et enlevez le convertisseur fibre du logement métallique

6. Glissez le convertisseur media dans un logement disponible et serrez la vis à molette.

L'installation est maintenant complète.

Specifications

Applicable Standards:	IEEE802.3ab 1000BASE-TX IEEE802.3z 1000BASE-SX/LX
Fixed Ports:	1 TX port, 1 FX port
Forwarding rate:	1488000pps for 1000Mbps
LED Indicators:	PWR, LNK/ACT
DIP Switches:	Switch 1: On(Forced Mode); Off(Auto-Negotiation) Switch 2: On(LLR enabled); Off(LLR disabled)
Cable :	<u>1000BASE-T</u> Cat. 5e or Cat. 6 EIA/TIA-568 100-ohm screened twisted-pair (STP) <u>1000BASE-SX</u> 62.5/125μm multi-mode fiber optic cable 50/125μm multi-mode fiber optic cable <u>1000BASE-LX</u> 9/125μm single-mode fiber optic cable 10/125 μm single-mode fiber optic cable
Dimensions:	L120 × W88 × H25 mm
Weight:	305 g
Power:	External power adaptor 7.5V 1.5A
Power Consumption:	5.5 Watts Max.
Temperature:	Operating: 0°C ~ 40°C (32°F ~ 104°F) Storage: -25°C ~ 70°C (-13°F ~ 158°F)
Humidity:	10 ~ 90%, non-condensing
Certifications:	FCC part 15 Class B, CISPR ClassB, VCCI Class B, CE Mark

Ordering Information

Media Converters							
Model Number	Port 1			Port 2			
	Speed (Mbps)	Cable/Connector	Max. Distance	Speed (Mbps)	Wavelength	Cable(/125 µm) /Connector	Max. Distance
TFC-1000MSC	1000	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100M	1000	1300nm	MMF (50µm or 62.5µm) MT-RJ	220M 62.5/125µm 550M 50/125µm
TFC-1000S20	1000	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100M	1000	1300nm	MMF (50µm or 62.5µm) SC	20 km
TFC-1000S50	1000	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100M	1000	1300nm	MMF (50µm or 62.5µm) ST	50 km
TFC-1000S70	1000	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100M	1000	1300nm	SMF (9µm or 10µm) SC	70 km
TFC-1000S10D3	1000	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100M	1000	TX: 1310nm RX: 1550nm	Bi-directional SMF (9µm or 10µm) SC	20 km
TFC-1000S10D5	1000	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100M	1000	TX: 1310nm RX: 1550nm	Bi-directional SMF (9µm or 10µm) SC	20 km

Note: MMF (multi-mode fiber); SMF (single-mode fiber)

Troubleshooting

Q1: After connecting the Fiber converter, the LEDs do not turn on. What should I do?

A1: First, check that the power outlet is receiving power. Second, make sure the power adapter is firmly connected to the Fiber converter and the power outlet. Third, make sure the Ethernet and the Fiber cables are connected.

Q2: All the LEDs are on, but I can't make a connection. What should I do?

A2: First, verify that you are using the proper fiber cable (e.g. multi-mode fiber cable for multi-mode converter; single-mode fiber cables for single-mode converters). Second, verify that the TX and RX cables have been reverse on the opposite Fiber connection. Third, power down the fiber converters and the switches. Wait 15 seconds, then plug the switches and the fiber converters back in.

Q3: What is the maximum distance that is supported by the fiber converter?

A3: Please reference section 4 for distance information.

If you still encounter problems or have any questions regarding the Fiber Converters please contact TRENDnet's Technical Support Department.

Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

Fiber Converters - 5 Year Warranty

If a product does not operate as warranted above during the applicable warranty period, TRENDnet shall, at its option and expense, repair the defective product or deliver to customer an equivalent product to replace the defective item. All products that are replaced will become the property of TRENDnet. Replacement products may be new or reconditioned.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product through any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDnet must be pre-authorized by TRENDnet with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

WARRANTIES EXCLUSIVE: IF THE TRENDNET PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDNET'S OPTION, REPAIR OR REPLACEMENT. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TRENDNET NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE OR USE OF TRENDNET'S PRODUCTS.

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LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDNET ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATE, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT TRENDNET'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

Governing Law: This Limited Warranty shall be governed by the laws of the state of California.

Note: AC/DC Power Adapter, Cooling Fan, Cables and Power Supply carry 1-Year Warranty

Certifications

This equipment has been tested and found to comply with FCC and CE Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received. Including interference that may cause undesired operation.

ADVERTENCIA

En todos nuestros equipos se mencionan claramente las caracteristicas del adaptador de alimentacón necesario para su funcionamiento. El uso de un adaptador distinto al mencionado puede producir daños fisicos y/o daños al equipo conectado. El adaptador de alimentación debe operar con voltaje y frecuencia de la energia electrica domiciliaria existente en el pais o zona de instalación.

TRENDnet Technical Support

US • Canada

Toll Free Telephone: 1(866) 845-3673

24/7 Tech Support

Europe (Germany • France • Italy • Spain • Switzerland • UK)

Toll Free Telephone: +00800 60 76 76 67

English/Espanol - 24/7
Francais/Deutsch - 11am-8pm, Monday - Friday MET

Worldwide

Telephone: +(31) (0) 20 504 05 35

English/Espanol - 24/7
Francais/Deutsch - 11am-8pm, Monday - Friday MET

Product Warranty Registration

Please take a moment to register your product online.
Go to TRENDnet's website at http://www.trendnet.com

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20675 Manhattan Place
Torrance, CA 90501
USA