

TRENDnet[®]



Quick Installation Guide

TFC-1000 Series (V1.1)

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1. Antes de Começar

Conteúdo da Embalagem

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- Adaptador de energia

Requisitos do ambiente

- Ambiente bastante fresco e seco
- Ambiente livre de fortes geradores de campo eletromagnético (como motores), vibração, poeira e exposição direta à luz solar
- Chassi TFC-1600 (opcional) ou superfície nivelada e resistente que suporta o peso do conversor de fibra
- Switch Ethernet Gigabit
- Cabo de fibra multimodo ou monomodo
- Cabo Ethernet Cat.5e ou mais alto

Equipamento opcional

- Rack padrão de 19"
- Chassi TFC-1600
- Módulo Mini-GBIC (exemplo: TEG-MGBSX, TEG-MGBS10, TEG-MGBS40, TEG-MGBS80) para slot Mini-GBIC (apenas TFC-1000MGB/TFC-1000MGA)

2. Instalação do Hardware

Instalação de dois conversores de fibra autônomos

1. Conecte um cabo Ethernet RJ-45 da porta Ethernet nos conversores de fibra à uma porta Ethernet no seu switch (por exemplo, TEG-S24Dg).



2. Conecte o cabo de fibra aos conversores de fibra.



3. Conecte o adaptador de energia na parte traseira do conversor de fibra.



Nota:

1. Para o TFC-1000MSC / S20 / S50 / S70, os cabos TX e RX devem ser revertidos na conexão de fibra oposta.
2. Cabear
 - a. Cabo Óptico Multimodo:: TFC-1000MSC, TFC-1000MGB / TFC-1000MGA com módulo TEG-MGBSX
 - b. Cabo Óptico Monomodo: TFC-1000S20, TFC-1000S50, TFC-1000S70, TFC-1000MGB / TFC-1000MGA com TEG-MGBS10 / TEG-MGBS40 /Módulo TEG-MGBS80
 - c. Cabo óptico de fio único para TFC-1000S10D3, TFC-1000S10D5, TFC-1000S40D3, TFC-1000S40D5, TFC-1000MGB / TFC-1000MGA com Módulo TEG-MGBS10D35 / TEG-MGBS40D35

Instalando o Conversor de Fibra em um Chassi

1. Desaparafuse a tampa do compartimento desejado no chassi.



2. Desaperte o parafuso e remova o conversor de fibra da caixa de metal.



3. Deslize o conversor de mídia em um slot disponível e aperte o parafuso.



3. Interruptores DIP e LEDs

LEDs			
LED	Color	Sequência	Função
PWR (Energia)	Verde	Sólido	Dispositivo ligado
	Desligado	n/a	Dispositivo desligado
LINK/ ACT	Verde	Sólido	Conexão de 2000Mbps (Full Duplex) (por porta)
	Verde	Piscando	Transmissão/Recebimento de Dados de 2000Mbps (Full Duplex) (por porta)
	Desligado	n/a	O link está desconectado

Interruptor DIP		
Switch	Ação	Função
1	Ligar	Modo Forçado TX
	Desligar	Negociação automática TX
2	Ligar	Habilitar LLR
	Desligar	Desabilitação do LLR

Nota:

1. Após alterar as configurações da chave DIP, ligue o conversor de fibra
2. LLR significa Link Loss Return. Quando o LLR está ativado, o transmissor da porta de fibra é desligado se o receptor falhar em detectar um link de recebimento válido. Se um dos condutores ópticos estiver com defeito, o conversor de fibra com LLR ativado retornará uma condição sem link ao seu parceiro de link. O LLR é usado para detectar problemas de link apenas na porta de fibra. Se o LLR estiver ativado em um conversor de fibra, o conversor de fibra oposto deve ter o LLR desativado

Technical Specifications

Power Budget									
Model Number	Media	Connectors	Wavelength	Optical Output Power (dBm)		Optical Input Power (dBm)		Power	Distance
				Min.	Max.	Min. (Sensitivity)	Max.	Budget	
TFC-1000MSC	MMF	RJ-45/SC (Duplex)	850nm	-9.5	-4	-12.5	-13.5	7.5	220m (62.5/125µm) cable
									550m (50/125 µm) cable
TFC-1000S20	SMF	RJ-45/SC (Duplex)	1310nm	-9.5	-3	-20	-3	11.5	20km
TFC-1000S50	SMF	RJ-45/SC (Duplex)	1550nm	-4	1	-23	-3	19	50km
TFC-1000S70	SMF	RJ-45/SC (Duplex)	1550nm	0	5	-24	-3	24	70km
TFC-1000S10D3	SMF	RJ-45/SC- (Simplex)	TX-1310nm/ RX-1550nm	-9	-3	-21	-3	12	10km
TFC-1000S10D5	SMF	RJ-45/SC- (Simplex)	TX-1550nm/ RX-1310nm	-9	-3	-21	-3	12	10km
TFC-1000S40D3	SMF	RJ-45/SC- (Simplex)	TX-1310nm/ RX-1550nm	-7	-2	-23	-2	16	40km
TFC-1000S40D5	SMF	RJ-45/SC- (Simplex)	TX-1550nm/ RX-1310nm	-7	-2	-23	-2	16	40km

Certifications

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



Waste electrical and electronic products must not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or Retailer for recycling advice.

- 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.
- FCC Caution: Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Technical Support

If you have any questions regarding the product installation, please contact our Technical Support.

Toll free US/Canada: **1-866-845-3673**

Regional phone numbers available at www.trendnet.com/support

TRENDnet

20675 Manhattan Place
Torrance, CA 90501
USA

Applies to PoE Products Only: This product is to be connected only to PoE networks without routing to the outside plant.

Note

The Manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Advertencia

En todos nuestros equipos se mencionan claramente las características del adaptador de alimentación necesario para su funcionamiento. El uso de un adaptador distinto al mencionado puede producir daños físicos y/o daños al equipo conectado. El adaptador de alimentación debe operar con voltaje y frecuencia de la energía eléctrica domiciliar existente en el país o zona de instalación.

Power supply connected caution

The equipment power supply cord shall be connected to a socket-outlet with earthing connection.

Advertencia

Le cordon d'alimentation de l'appareil doit être raccordé à une prise de courant avec mise à la terre.

If the Optical Transceiver doesn't ship with the unit, the user manual shall have description as below or equivalent: "This product is intended to be use with a UL Listed Optical Transceiver product, Rated DC3.3V, Laser Class I."

Wall-mounted instructions

The Unit has two wall-mount slots on its bottom panel. Before you begin, make sure you have two screws that indicate a diameter measurement of 0.265748 inches (6.75mm).

- (1) Determine where you want to mount the modem.
- (2) Maneuver the modem so the wall-mount slots line up with the two screws.
- (3) Place the wall-mount slots over the screws and slide the modem down until the screws fit snugly into the wall-mount slots.
- (4) Screw type P3.5 x 16mm x 2

Product Warranty Registration

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