



## Quick Installation Guide



**100Base-FX  
Fiber Converters**

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# 1. Before You Start






## Package Contents

- Fiber Converter
- Quick Installation Guide
- AC Power Supply (7.5 DC, 1.5A)

## System Requirements

- An environment that is free from strong electromagnetic field generators (such as motors), vibration, dust and direct exposure to sunlight
- TFC-1600 chassis (optional) or sturdy, level surface that can support the weight of the Fiber Converter
- 10/100Mbps Ethernet Switch
- Multi-mode or Single-mode Fiber cables/ CAT-5 RJ-45 Ethernet Cable

## Product Detail

Model Name	Multi/Single-Mode	Fiber Connector
TFC-110MM	Multi-Mode (Duplex)	MT-RJ 
TFC-110MST		ST 
TFC-110MSC		Single-Mode (Duplex)
TFC-15MS100		
TFC-110S15		
TFC-110S30		
TFC-110S60		
TFC-110S100		
TFC-110S20D3	Single-Mode Bidirectional (Simplex)	SC 
TFC-110S20D5		
TFC-110S40D3		
TFC-110S40D5		

## 2. Hardware Installation

### Installing two stand alone Fiber Converters

1. Connect the fiber cable to the fiber converters. This cable must be multi-mode for the TFC-110MM/ MST/MSC. This cable must be single-mode for the TFC-110S15/S30/S60/S100/ S20D3/S20D5/S40D3/S40D5.

2. Connect an RJ-45 Ethernet cable from the Ethernet port on the fiber converter to an Ethernet port on your switch (e.g TEG-424WS).

3. Connect the power adapter to the back of the fiber converter.



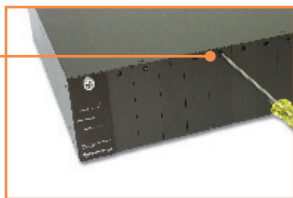
Note: The TX and RX cables must be reverse on the opposite fiber connection.

Note: The TFC-110S20D3 must be paired with the TFC-110S20D5. The TFC-110S40D3 must be paired with the TFC-110S40D5.

Note: TFC-15MS100 converts Multi-Mode to Single-Mode fiber, it can be connected to a switch with Multi-Mode SC-type fiber connection (e.g TEG-S3000i with fiber modules) to extend the distance up to 15km with Single-Mode fiber.

## Installing Fiber Converter in a Chassis

4. Unscrew the bay cover from the desired bay on the chassis.



5. Unfasten the thumbscrew and remove the fiber converter from the metal casing.



6. Slide the media converter into an available slot and fasten the thumbscrew.



**Your installation is now complete.**

### Register Your Product

To ensure the highest level of customer service and support, please take a moment to register your product Online at: [www.trendnet.com/register](http://www.trendnet.com/register)

Thank you for choosing TRENDnet

# Specifications

<b>Applicable Standards:</b>	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX & 100BASE-FX
<b>Fixed Ports:</b>	1 TX port, 1 FX port
<b>Speed:</b>	10/20Mbps for half/full-duplex 100/200Mbps for half/full-duplex
<b>Forwarding rate:</b>	148,800pps
<b>LED Indicators:</b>	<u>TFC-110 series</u> Per Unit: Power; Speed (100) Per Port: FDX/COL, LINK/ACT  <u>TFC-15MS100</u> Per Unit: Power Per Port: Link/ACT
<b>DIP Switches:</b>	TFC-110 series: Duplex (On/half-duplex, Off/full-duplex) TFC-15MS100: None
<b>Cable :</b>	<u>10BASE-T</u> : 2-pair UTP Cat. 3,4,5  <u>100BASE-TX</u> : 2-pair UTP Cat. 5  <u>100BASE-SX</u> : 62.5/125um or 50/125um multi-mode fiber optic cable  <u>100BASE-LX</u> : 9/125um or 10/125um single-mode fiber optic cable
<b>Dimensions:</b>	L120 × W88 × H25 mm
<b>Weight:</b>	305 g
<b>Power:</b>	External power adaptor 7.5V 1.5A
<b>Power Consumption:</b>	7.2W Max.
<b>Temperature:</b>	Operating: 0°C ~ 40°C (32°F ~ 104°F) Storage: -25°C ~ 70°C (-13°F ~ 158°F)
<b>Humidity:</b>	10 ~ 90%, non-condensing
<b>Certifications:</b>	FCC part 15 Class B, CISPR ClassB, VCCI Class B, CE Mark

Media Converters							
Model Number	Port 1			Port 2			
	Speed (Mbps)	Cable/Connector	Max. Distance	Speed (Mbps)	Wavelength	Cable/(125 μm) /Connector	Max. Distance
TFC-110MSC	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	1300nm	MMF (50μm or 62.5μm) SC	2 km
TFC-110MST	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	1300nm	MMF (50μm or 62.5μm) ST	2 km
TFC-110MM	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	1300nm	MMF (50μm or 62.5μm) MT-RJ	2 km
TFC-110S15	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	1300nm	SMF (9μm or 10μm) SC	15 km
TFC-110S30	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	1300nm	SMF (9μm or 10μm) SC	30 km
TFC-110S60	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	1300nm	SMF (9μm or 10μm) SC	60 km
TFC-110S100	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	1300nm	SMF (9μm or 10μm) SC	100 km
TFC-110S20D3	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	TX: 1310nm RX: 1550nm	Bi-directional SMF (9μm or 10μm) SC	20 km
TFC-110S20D5	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	TX: 1550nm RX: 1310nm	Bi-directional SMF (9μm or 10μm) SC	20 km
TFC-110S40D3	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	TX: 1310nm RX: 1550nm	Bi-directional SMF (9μm or 10μm) SC	40 km
TFC-110S40D5	10/100	Cat. 3, 4, 5, EIA/TIA-568 100-ohm STP	100m	100	TX: 1550nm RX: 1310nm	Bi-directional SMF (9μm or 10μm) SC	40 km
TFC-15MS100	100	MMF 1300nm (50μm or 62.5μm) SC	2 km	100	1300nm	SMF (9μm or 10μm) SC	15 km

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

**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.

<b>Fiber Converters</b>	<b>5 Year Limited Warranty</b>
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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.

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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.



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



**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.

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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.



## Product Warranty Registration

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