



## Intelligent 1000Base-T to 1000Base-LX Dual Wavelength Single Mode SC Fiber (60 km / 37.3 miles)

TFC-1000S60D3 (C1.1R)

The TFC-1000S60D3 Bi-Directional Intelligent Fiber Converter works with the TFC-1600 chassis system or as a standalone unit. This converter is a Dual Wavelength Single Mode SC-Type fiber converter that supports port-based SNMP reporting and spans distances up to 60 km (37.3 miles). This module must be used with the TFC-1000S10D5 module. Ports include 1 x 1000Base-T (RJ-45) port and 1 x 1000Base-LX (SC Simplex Type) port.

## PRODUCT OVERVIEW

- Must use with TFC-1000S60D5
- SC-type dual-wavelength single-mode fiber port connects over distances of up to 60 km (37.3 miles)
- 1000Base-T Gigabit copper port supports Full-Duplex mode
- Supports port level SNMP management
- Functions as a stand alone converter or with the TFC-1600 fiber chassis

## FEATURES

- Compliant with IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-LX standards
- 1 x 1000Base-T RJ-45 port
- 1 x 1000Base-LX single-mode bi-directional simplex-SC type fiber port
- Provides Dip switch to set: Fiber (Forced / Auto-Negotiation), LLR (Enable / Disable)
- Support LLCF (Link Loss Carry Forward, Link Pass Through)
- Support LLR (link Loss Return) for FX port
- Monitor and configure Ethernet or Fiber's duplex mode, LLR, port on / off and receive link down information via management module TFC-1600MM and chassis TFC-1600
- Status LED indicators for Power and Link / Activity
- Wall mountable
- Optional 19" system chassis with redundant power supply (TFC-1600), holds up to 16 TFC series Media Converters
- 3-year limited warranty

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## SPECIFICATIONS

### HARDWARE

<b>Standard</b>	<ul style="list-style-type: none"><li>• IEEE802.3ab 1000Base-T, IEEE 802.3z 1000Base-LX</li></ul>
<b>Supported Frame Size</b>	<ul style="list-style-type: none"><li>• Standard Ethernet up to 10 Kbytes</li></ul>
<b>Network Media</b>	<ul style="list-style-type: none"><li>• 1000Base-T: Cat. 6 EIA / TIA-568 100-ohm UPT / STP, up to 100 m</li><li>• 1000Base-LX: Single-mode fiber optic cable 10/125 <math>\mu</math>m, up to 60 km</li></ul>
<b>Protocol</b>	<ul style="list-style-type: none"><li>• CSMA / CD</li></ul>
<b>Ports</b>	<ul style="list-style-type: none"><li>• 1 x 1000Base-T</li><li>• 1 x 1000Base-LX (simplex SC-type)</li></ul>
<b>Dip Switch</b>	<ul style="list-style-type: none"><li>• Fiber (forced / auto-negotiation), LLR (enable / disable)</li></ul>
<b>Transfer Rate</b>	<ul style="list-style-type: none"><li>• 2000 Mbps (full-duplex)</li></ul>
<b>Diagnostic LEDs</b>	<ul style="list-style-type: none"><li>• Per Unit: power</li><li>• Per Port: link / activity</li></ul>
<b>Power Adapter</b>	<ul style="list-style-type: none"><li>• 7.5V DC, 1A external power adapter</li></ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"><li>• 2.7 Watts (max)</li></ul>
<b>Dimensions</b>	<ul style="list-style-type: none"><li>• 120 x 88 x 25 mm (4.7 x 3.46 x 0.98 in.)</li></ul>
<b>Weight</b>	<ul style="list-style-type: none"><li>• 354 g (12.5 oz)</li></ul>
<b>Temperature</b>	<ul style="list-style-type: none"><li>• Operating: 0° ~ 40°C (32° ~ 104°F)</li><li>• Storage: -25° ~ 70°C (-13° ~ 158°F)</li></ul>
<b>Humidity</b>	<ul style="list-style-type: none"><li>• Max 90% (non-condensing)</li></ul>
<b>Certifications</b>	<ul style="list-style-type: none"><li>• CE, FCC</li></ul>

Model	Media	Wavelength	Optical Output Power (dBm)		Optical Input Power (dBm)		Power Budget	Distance
			Min	Max	Min (Sensitivity)	Max		
TFC-1000S60D3	SMF	TX: 1310 nm RX: 1550 nm	-7	-2	-23	-2	16	60 m

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## PACKAGE CONTENTS

TFC-1000S60D3

Multi-Language Quick Installation Guide

Power Adapter (7.5 V, 1A)

## RELATED PRODUCTS

TFC-1000S60D5	Intelligent 1000Base-T to 1000Base-LX Dual Wavelength Single Mode SC Fiber (60 km / 37.3 miles)
TFC-1000S50	Intelligent 1000Base-T to 1000Base-LX Single-Mode SC Fiber Converter (50 km / 31 miles)
TFC-1600	16-Slot Chassis System for TFC series Fiber Converter

## CONTACT INFORMATION

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