



## Intelligent 1000Base-T to 1000Base-LX Dual Wavelength Single Mode SC Fiber (40 km / 24.85 miles)

TFC-1000S40D5 (C1.1R)

The TFC-1000S40D5 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 40 km (24.85 miles). This module must be used with the TFC-1000S40D3 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-1000S40D3
- SC-type dual-wavelength single-mode fiber port connects over distances of up to 40 km (24.85 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 40 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 NAME           | MEDIA | WAVELENGTH                 | OPTICAL OUTPUT POWER (DBM) |      | OPTICAL INPUT POWER (DBM) |      | POWER BUDGET | DISTANCE |
|----------------------|-------|----------------------------|----------------------------|------|---------------------------|------|--------------|----------|
|                      |       |                            | MIN.                       | MAX. | MIN. (SENSITIVITY)        | MAX. |              |          |
| <b>TFC-1000S40D5</b> | SMF   | TX: 1550 nm<br>RX: 1310 nm | -7                         | -2   | -23                       | -2   | 16           | 40 m     |

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## PACKAGE CONTENTS

TFC-1000S40D5

Multi-Language Quick Installation Guide

Power Adapter (7.5V, 1A)

## RELATED PRODUCTS

|               |  |
|---------------|--|
| TFC-1000S40D5 | Intelligent 1000Base-T to 1000Base-LX Dual Wavelength Single Mode SC Fiber (40 km / 24.85 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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