



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

TFC-1000S40D5 (C1.1R)

- 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

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.

- 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

## Specifications

### Hardware

#### Standard

- IEEE802.3ab 1000Base-T, IEEE 802.3z 1000Base-LX

#### Supported Frame Size

- Standard Ethernet up to 10 Kbytes

#### Network Media

- 1000Base-T: Cat. 6 EIA / TIA-568 100-ohm UPT / STP, up to 100 m
- 1000Base-LX: Single-mode fiber optic cable 10/125  $\mu\text{m}$ , up to 40 km

#### Protocol

- CSMA / CD

#### Ports

- 1 x 1000Base-T
- 1 x 1000Base-LX (simplex SC-type)

#### Dip Switch

- Fiber (forced / auto-negotiation), LLR (enable / disable)

#### Transfer Rate

- 2000 Mbps (full-duplex)

#### Diagnostic LEDs

- Per Unit: power
- Per Port: link/activity

#### Power Adapter

- 7.5V DC, 1A external power adapter

#### Power Consumption

- 2.7 watts (max)

#### Dimensions

- 120 x 88 x 25 mm (4.7 x 3.46 x 0.98 in.)

### Weight

- 354 g (12.5 oz)

### Temperature

- Operating: 0° ~ 40°C (32° ~ 104°F)
- Storage: -25° ~ 70°C (-13° ~ 158°F)

### Humidity

- Max 90% (non-condensing)

### Certifications

- CE, FCC

### Media

- SMF

### Wavelength

- TX: 1550 nm
- RX: 1310nm

### Optical Output Power (dBm)

- Min: -7
- Max: -2

### Optical Input Power (dBm)

- Min (Sensitivity): -23
- Max: -2

### Power Budget

- 16

### Distance

- 40 m

### Package Contents

- TFC-1000S40D5
- Multi-Language Quick Installation Guide
- Power Adapter (7.5V, 1A)