



## Intelligent 1000Base-T to 1000Base-LX Single-Mode SC Fiber Converter (20km/12.4miles)

TFC-1000S20 (C1.0R)

- SC-type single-mode fiber port connects over distances of up to 20km (12.4 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-1000S20 Intelligent Fiber Converter works with the TFC-1600 chassis system or as a standalone unit. This converter is a Single Mode SC-Type fiber converter that supports SNMP and spans distances up to 20km (12.4miles). Ports include 1 x 1000Base-T (RJ-45) port and 1 x 1000Base-LX (SC-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 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 Fiber 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 10Kbytes

#### Network Media

- 1000Base-T: Cat. 6 EIA/TIA-568 100-ohm UPT/STP, up to 100m
- 1000Base-LX: Single-mode fiber optic cable 9/125  $\mu\text{m}$  or 10/125  $\mu\text{m}$ , up to 20km

#### 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

- 2000Mbps (full-duplex)

#### Diagnostic LED

- Per Unit: power

#### Power Adapter

- 7.5VDC, 1.5A (max. 7.2 watts)

#### Power Consumption

- 2.7 Watts (max)

#### Dimensions

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

### Weight

- 354g (12.5oz)

### Temperature

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

### Humidity

- Max. 90% (non-condensing)

### Certification

- CE, FCC

### Media

- SMF

### Wavelength

- 1310nm

### Pout (dBm)

- -9.5 ~ -3

### Sensitivity

- -20 ~ -3

### Power Budget

- 11.5

### Distance

- 20m

### Package Contents

- TFC-1000S20
- Multi-Language Quick Installation Guide
- Power Adapter (7.5V, 1A)