



## Intelligent 1000Base-T to SFP Media Converter

TFC-1000MGB (A3.3R)

- Mini-GBIC port accommodates Multi or Single modes and up to 80km distances with TEG-MGBS80 at Gigabit speed
- 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

TFC-1000 series Fiber Media Converter transforms 1000Base-T (Copper Gigabit) media to 1000Base-SX/LX (Mini-GBIC) media and vice versa. The 1000Base-T port supports full duplex Gigabit connection at wire speed with RJ45 connector. The Mini-GBIC connection supports shortwave (SX) or longwave (LX) laser optic with multi-mode or single-mode Mini-GBIC module. This converter will give your Copper Gigabit connection the ability to interface with fiber connection over a great distance.

- Compliant with IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-SX/LX standards
- 1 x 1000Base-T RJ-45 port
- 1x1000Base-SX/LX Mini-GBIC Slot
- 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 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-SX

#### Supported Frame Size

- Standard Ethernet up to 10 Kbytes

#### Network Media

- 1000Base-TX: Cat. 6 EIA/TIA-568 100-ohm UPT/STP, up to 100m
- 1000Base-SX: Multi-mode fiber optic cable 50/125  $\mu\text{m}$ , up to 550m
- Multi-mode fiber optic cable 62.5/125  $\mu\text{m}$ , up to 220m
- 1000Base-LX: Single-mode fiber optic cable 9/125  $\mu\text{m}$ , up to 80km (TEG-MGBS80)

#### Protocol

- CSMA/CD

#### Ports

- 1 x 1000Base-T
- 1 x 1000Base-SX/LX Mini-GBIC slot for optional Mini-GBIC modules

#### Dip Switch

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

#### Transfer Rate

- 2000Mbps (full-duplex)

#### Diagnostic LEDs

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

#### Power Adapter

- 7.5V DC, 1A external power adapter

#### Power Consumption

- 2.8 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)

#### Certifications

- CE, FCC

#### Package Contents

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