Product Introduction & Benefits

F-FE-TR

The Thor Fiber F-FE-TR media converter is a cost-effective, feature-packed solution for expanding or extending an existing Ethernet/ Fast Ethernet network. Thor's compact converter is enhanced with features like remote and local loop back testing, auto-negotiation, and link fault signaling for total reliability, It also features seven DIP switches for manual activation of the enhanced features. This gives the F-FE-TR the ability to be quickly integrated into any network configuration.

The Thor Fiber F-FE-TR can support a variety of fiber optic cables and connectors that can extend distances (up to 100km) as well as offering flexibility in the migration to 100Base-FX networks. Several converters can be simultaneously installed by using the F-CHA 12-slot 19" rack-mount chassis.

Main Features

- ◆ Device DIP switches allow multiple configuration options
- ◆ Automatic MDI/MDI-X selection on RJ-45 port
- ◆ Auto-negotiation, NWay support on RJ-45
- ◆ Link Fault Signaling (LFS)
- ◆ Remote and local loop back test
- ◆ LEDs for at-a-glance device status
- ◆ Extends distances ranging from 2km (multi-mode fiber) to 120km (single mode fiber)
- ◆ Store-and-forward at full wire speed
- ◆ Internal and external power supply options
- ◆ FCC Class A & CE approved.

Specification

Standard:	IEEE 802.3 (10BASE-T Ethernet); IEEE 802.3u (100BASE-TX/FX Fast Ethernet)
Ports:	1 x copper;1 x fiber optic
Interfaces:	UTP 100/120ohm; RJ-45 type Fiber optic connector: SC, or ST types (only SC type for single mode)
Max. Distance:	UTP: 100 meters (Category 3/4/5 or better) Fiber: 2,000 meters (62.5/125 or 50/125 micron fiber cabling) 20,000~120,000 meters (9/125 micron fiber cabling)

Unit LED:
- 100: Green, illuminated when data packets are being transmitted at 100Mbps
- LFS: Red, illuminated when a break or disruption exists in copper or fiber links
- LNK: Green, illuminated indicates receiving link pulses from compliant device
- ACT: Green, flashing to indicate data packets being sent / received
- FDX: Amber, flashing to indicate unit is in full-duplex mode
- COL: Amber, flashing to indicate collision
- PWR: Green, illuminated to indicate unit is operating under normal power

Power:	AC power adapter; 12V DC @ 0.5A

Environment:
Operating Temperature: 0°C to 50°C
Relative Humidity: 10% to 80%, Non-condensing
Non-Operating/Storage:
Temperature: -25°C to 70°C
Relative Humidity: 5% to 90%, Non-condensing
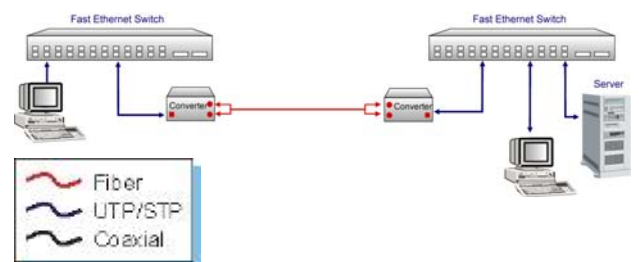Emissions: FCC Part 15 of Class A & CE approved
Dimensions: 74 x 110 x 24mm (W x D x H)
Weight: 148g

Switches:
- DIP 1 - Enables / disables auto-negotiation
- DIP 2 - Copper port (RJ45) duplex mode; full-duplex or half-duplex
- DIP 3 - Copper port (RJ45) data bit rate; 10Mbps or 100Mbps
- DIP 4 - Fiber port duplex mode; full-duplex or half-duplex
- DIP 5 - Enables / disables link fault signaling (LFS)
- DIP 6 - Enables / disables local loop back (LLBK)
- DIP 7 - Enables / disables remote loop back (RLBK)

Applications

The following illustrates typical applications for the F-FE-TR series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

Ordering Information

F-FE-TR-MM
Enhanced 10/100Base-TX to 100Base-FX Multi-mode
up to 2000 feet- Dual Fiber Media Converter (SC Connector)

Media Converter (SC Connector)

F-FE-TR-SM-20/30/60/100 (km):
Enhanced 10/100Base-TX to 100Base-FX Single Mode
Dual Single mode fiber Media Converter (SC Connector)

F-FE-TRS-1310-20/40 (km):
Enhanced 10/100Base-TX to 100Base-FX Single Fiber
Single fiber Media Converter, Transmitter (WDM TX1310nm/ RX1550nm)

F-FE-TRS-1550-20/40 (km):
Enhanced 10/100Base-TX to 100Base-FX Single
Fiber Media Converter, Receiver (WDM TX1550nm/ RX1310nm)