

# E-TBT-FRL-N-02(ST) & E-100BTX-FX-N-02(SC)-F

## PCI Powered Copper to Fiber Media Converters



The E-TBT-FRL-N-02(ST) is a PCI powered media converter that provides an interface between 10Base-T ports and 10Base-FL ports, allowing users to integrate fiber optic cabling into 10Base-T copper desktop environments. Designed to deliver low cost fiber connectivity to the desktop by installing directly inside a workstation or file server and connecting externally to the factory copper NIC port. The device mounts and draws it power from any standard PCI slot, providing secure fiber connectivity that requires no configuration, and does not consume any CPU utilization.

The E-100BTX-FX-N-02(SC)-F is a PCI powered media converter that provides an interface between 100Base-TX ports and 100Base-FX ports, allowing users to integrate fiber optic cabling into 100Base-TX copper desktop environments. Designed to deliver low cost fiber connectivity to the desktop by installing directly inside a workstation or file server and connecting externally to the factory copper NIC port. The device mounts and draws it power from any standard PCI slot, providing secure fiber connectivity that requires no configuration, and does not consume any CPU utilization.

### Ordering Information

#### E-TBT-FRL-N-02(ST)

10Base-T (RJ-45) [100 m/328 ft.]  
to 10Base-FL 850nm multimode (ST)  
[2 km/1.2 mi.] Link Budget: 13.5 dB

#### E-100BTX-FX-N-02(SC)-F

100Base-TX (RJ-45) [100 m/328 ft.]  
to 100Base-FX 1300nm multimode (SC)  
[2 km/1.2 mi.] Link Budget: 11.0 dB  
Includes both standard and low profile brackets

### Features

- 2 sizes to accommodate both standard and low profile PCI slots
- Auto-MDI/MDIX
- Link Pass Through
- Easily installs inside PC or file server; no configuration required; no drivers to install
- Provides LEDs for easy network monitoring
- Saves space over traditional stand-alone converters while providing a more secure installation
- No need to replace existing NICs
- Draws power directly from PCI slot; no power supply needed
- Universal PCI Compliant, supports both 3.3V and 5V signaling environments
- E-100BTX-FX-N-02(SC)-F only:
  - Auto-Negotiation
  - Far-End-Fault
  - Automatic Link Restoration
  - Pause

### Specifications

Standards	IEEE 802.3
Switches	E-TBT-FRL-N-02(ST) S1: Switch to enable/disable Link Pass Through E-100BTX-FX-N-02(SC)-F S1: Auto-Negotiation On/Off S2: Pause On/Off S3: LPT On/Off S4: FEF On/Off
Status LEDs	E-TBT-FRL-N-02(ST) Power: Lit for normal operation LKF: Link Fiber LKC: Link Copper RXF: Receive Fiber RXC: Receive Copper E-100BTX-FX-N-02(SC)-F LED1: Steady = Copper link LED2: Steady = Fiber link
Dimensions	Width: 0.8" [19 mm] Depth: 4.8" [121 mm] Height: 4.8" [121 mm]
Power Consumption	E-TBT-FRL-N-02(ST) >450mA E-100BTX-FX-N-02(SC)-F: 600mA
Power Source	PCI edge connector
Environment	Operating: 0°C to 50°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	1 lb. [0.45 kg]
Compliance	CISPR22/EN55022, EN55024, EN60950 Class A, FCC Class A, CE Mark
Warranty	Lifetime