

Stand-alone Ethernet Media Converter 10Base-T to 10Base-FL

The E-TBT-FRL-05 is a stand-alone 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 environments. Operating at Layer 1, the physical layer, data is passed through the converter at line speed, making it ideal for applications where low latency is essential.



E-TBT-FRL-05(SC)

Key Features

- Auto-MDI/MDIX
- Link Pass Through
- Automatic Link Restoration
- Integrate mixed cabling environments using either switched or shared Ethernet

Specifications

Standards	IEEE 802.3 10Base-T 10Base-FL
Switch	S1: Enables/disables Link Pass Through
Status LEDs	PWR (Power): ON = connection to external AC power Link: ON = unit is receiving link pulses from a compliant device RX (Receive): ON = packets are being received
Dimensions	Width: 3" [76 mm] Depth: 3.9" [99 mm] Height: 1" [25 mm]
Power Input	External AC/DC required; 12 VDC, 0.5A, unregulated, standard
Environment	Operating: 0°C to 50°C Humidity: 5% to 90% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
MTBF	54,337 hours (MIL217F2 V5.0) (MIL-HDBK-217F) 131,255 hours (Bellcore7 V5.0)
Certifications	Safety: Wall Mount Power Supply: UL Listed, cUL Listed (Canada) Regulatory: FCC Class A, CISPR22/EN55022 Class A, EN55024, EN61000, CE Mark
Warranty	Lifetime

Power Supply Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU; Ex: E-TBT-FRL-05-NA

-NA = Country Code

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|---------------------|----------------------|
| -NA = North America | -LA = Latin America |
| -EU = Europe | -UK = United Kingdom |
| -SA = South Africa | -JP = Japan |
| -OZ = Australia | -BR = Brazil |

Ordering Information

E-TBT-FRL-05
10Base-T (RJ-45) [100 m/328 ft.]
to 10Base-FL 850nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 13.5 dB

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

E-TBT-FRL-05(L)
10Base-T (RJ-45) [100 m/328 ft.]
to 10Base-FL 1300nm multimode (ST)
[5 km/3.1 mi.] Link Budget: 13.5 dB

E-TBT-FRL-05(XC)
10Base-T (RJ-45) [100 m/328 ft.]
to 10Base-FL 1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 7.0 dB

Optional Accessories (sold separately)

Wide Input (24 - 60 VDC) Power Supplies (sold separately)

SPS-2460-SA
Stand-Alone Power Supply

Mounting Options (sold separately)

E-MCR-05
12-Slot Media Converter Rack

RMS19-SA4-02
4-Slot Media Converter Shelf

WMBD
DIN Rail Bracket 5" [127 mm]

WMBD-FS
DIN Rail Bracket (flat, small) 3.1" [79 mm]

WMB5
Wall Mount Bracket 3.2" [81 mm]

WMBV
Vertical Wall Mount Bracket 5" [127 mm]