

E-TBT-FRL-05 Series

Stand-alone Ethernet Media Converter

10Base-T to 10Base-FL



E-TBT-FRL-05(SC)

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.

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]
Compliance	Safety: Wall Mount Power Supply: UL Listed, cUL Listed (Canada) Regulatory: FCC Class A, CISPR22/EN55022 Class A, EN55024, EN61000, CE Mark
Warranty	Lifetime

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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to 10Base-FL 850nm multimode (SC)
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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(SM)
10Base-T (RJ-45) [100 m/328 ft.]
to 10Base-FL 1310nm single mode (ST)
[20 km/12.4 mi.] Link Budget: 7.0 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

E-TBT-FRL-05(LH)
10Base-T (RJ-45) [100 m/328 ft.]
to 10Base-FL 1310nm single mode (ST)
[40 km/24.9 mi.] Link Budget: 19.0 dB

Optional Accessories (sold separately)

Wide Input (24 - 60 VDC) Power Supplies

SPS-2460-SA
Stand-Alone Power Supply

Mounting Options

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]

WMBS
Wall Mount Bracket 3.2" [81 mm]

WMBV
Vertical Wall Mount Bracket 5" [127 mm]

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

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