LANTRONIX®

E-100BTX-HT Series

Media Converters

Unmanaged Hardened Fast Ethernet Media Converter
(1) 100Base-TX Port + (1) 100Base-FX Port

The E-100BTX-HT Series is a Hardened Ethernet stand-alone media converter that provides an interface between 100Base-TX ports and 100Base-FX ports, allowing users to integrate fiber optic cabling into extreme 100Base-TX copper environments, by supporting an operating temperature range of -25°C to 65°C. 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-100BTX-FX-05(HT)   E-100BTX-FX-05(SCHT)

Key Features

• Extended Temperature Capable:
  Designed to operate in environments where ambient temperatures can rise as high as 65°C (149°F)

• Auto-Negotiation

• Auto-MDI/MDIX

• Link Pass Through

• Far-End-Fault Detection

• Automatic Link Restoration

• Pause

Specifications

Standards	IEEE 802.3
Switches	SW1: Auto-Negotiation On/Off SW2: Pause TX On/Off SW3: LPT On/Off SW4: FEF On/Off
Jumpers	Jumper Block 1: Auto-MDI/MDIX enable
Status LEDs	PWR (Power): Lit for normal operation SDF (Signal Detect Fiber): Lit for fiber link SDC (Signal Detect Copper): Lit for copper link RXF (Receive Fiber): Flashing = RX data RXC (Receive Copper): Flashing = RX data
Dimensions	Width: 3" [76 mm] Depth: 4.7" [119 mm] Height: 1" [25 mm]
Power Supply	External AC/DC required; Output: 9 VDC. 1.0A; 120-240VAC input, unregulated; standard
Environment	Operating: -25°C to 65°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
MTBF	Greater than 46,768 hours (MIL-HDBK-217F) Greater than 123,861 hours (Bellcore7 V5.0)
Certifications	Safety: Wall Mount Power Supply: UL Listed, cUL Listed (Canada) 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-100BTX-FX-05(HT)-**NA**

-NA = Country Code

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

Ordering Information

E-100BTX-FX-05(HT)
100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (ST) [2 km/1.2 mi.] Link Budget: 11.0 dB

E-100BTX-FX-05(SCHT)
100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (SC) [2 km/1.2 mi.] Link Budget: 11.0 dB

E-100BTX-FX-05(SMHT)
100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1310nm single mode (SC) [20 km/12.4 mi.] Link Budget: 16.0 dB

Optional Accessories (sold separately)

Power Supplies (sold separately)

SPS-2460-SA
Stand-Alone Power Supply

Mounting Options (sold separately)

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]

WMBL
Wall Mount Bracket 4" [102 mm]

WMBV
Vertical Wall Mount Bracket 5" [127 mm]