

stand-alone media converter

E-100BTX-FX-05(XXXX)

Fast Ethernet

Fast Ethernet Media Converter

Stand-Alone



single fiber model

- ▶ **Extend Network Distance**
Used in pairs, this media converter can extend distances between two twisted pair switches or a switch and a server up to 2 km over multimode fiber or up to 120 km over single mode fiber.
- ▶ **Connect Remote Devices**
Using one media converter, a switch with a copper port can be connected to a switch with an existing fiber interface.

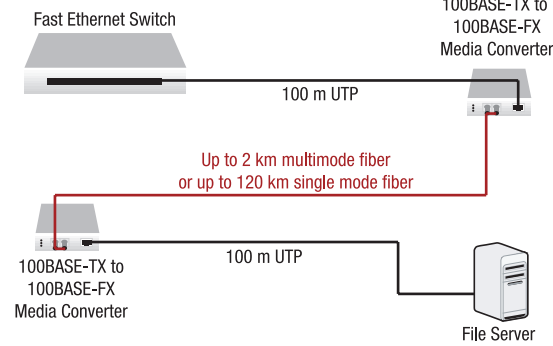
Features

- ▶ Operates under heavy traffic loads without excess heat, so there is no need for a failure-prone internal fan
- ▶ Round trip delay of only 40 bit times - far below the Class II rating of 92 bit times
- ▶ Auto-Negotiation
- ▶ AutoCross™ [
- ▶ Link Pass Through
- ▶ Far-End-Fault (FEF)
- ▶ Pause
- ▶ Automatic Link Restoration

Specifications

Standards	IEEE Std. 802.3 100BASE-FX, 100BASE-TX
Switches	SW1: Auto-Negotiation On/Off SW2: Pause TX On/Off SW3: Link Pass Through On/Off SW4: Far-End-Fault On/Off
Jumpers	Jumper Block 1: AutoCross™ enable
Status LEDs	PWR (Power) SDF or LKF (Link Fiber) SDC or LKC (Link Copper) RXF (Receive Fiber) RXC (Receive Copper)
Dimensions	Width: 3.0" [76 mm] Depth: 4.7" [119 mm] Height: 1.0" [25 mm]
Power	External AC/DC required: 12 VDC, 0.5 A, unregulated, standard
Environment	0 – 50°C, 5% – 95% humidity non-condensing, 0 – 10,000 ft. altitude
Shipping Weight	2 lbs. [0.90 kg]
Safety Compliance	Wall Mount Power Supply: UL Listed and CSA certified
Regulatory Compliance	FCC Class A, EN55024, EN55022 Class A, EN61000, CE Mark
Warranty	Lifetime

Extend Network Distance



The converters will automatically re-establish link when connected to two 10/100 auto-negotiating switches, after the fault condition has been corrected. With other manufacturers' converters the user must intervene to re-establish link.

Ordering Information

- E-100BTX-FX-05**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1300nm MM (ST) [2 km/1.2 mi.] Link Budget: 11.0 dB
- E-100BTX-FX-05(SC)**
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(LC)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1300nm multimode (LC) [2 km/1.2 mi.] Link Budget: 11.0 dB
- E-100BTX-FX-05(MT)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1300nm MM (MT-RJ) [2 km/1.2 mi.] Link Budget: 14.5 dB
- E-100BTX-FX-05(SM)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1310nm SM (SC) [20 km/12.4 mi.] Link Budget: 16.0 dB
- E-100BTX-FX-05(SMLC)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1310nm SM (LC) [20 km/12.4 mi.] Link Budget: 17.3 dB
- E-100BTX-FX-05(LH)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1310nm SM (SC) [40 km/24.9 mi.] Link Budget: 26.0 dB
- E-100BTX-FX-05(XL)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1310nm SM (SC) [60 km/37.3 mi.] Link Budget: 29.0 dB
- E-100BTX-FX-05(LW)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1550nm SM (SC) [80 km/49.7 mi.] Link Budget: 29.0 dB
- E-100BTX-FX-05(XLW)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1550nm SM (SC) [120 km/74.6 mi.] Link Budget: 36.0 dB

Recommended use in pairs

- E-100BTX-FX-05(100)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1310nm TX/1550nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB
- E-100BTX-FX-05(101)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1550nm TX/1310nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB
- E-100BTX-FX-05(102)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1310nm TX/1550nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 25.0 dB
- E-100BTX-FX-05(103)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1550nm TX/1310nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 25.0 dB

- E-100BTX-FX-05(104)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1310nm TX/1550nm RX single fiber single mode (SC) [60 km/37.3 mi.] Link Budget: 26.0 dB
- E-100BTX-FX-05(105)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1550nm TX/1310nm RX single fiber single mode (SC) [60 km/37.3 mi.] Link Budget: 26.0 dB
- E-100BTX-FX-05(106)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1310nm TX/1550nm RX single fiber single mode (SC) [80 km/49.7 mi.] Link Budget: 33.0 dB
- E-100BTX-FX-05(107)**
100BASE-TX (RJ-45) [100 m/328 ft.] to 100BASE-FX 1550nm TX/1310nm RX single fiber single mode (SC) [80 km/49.7 mi.] Link Budget: 32.0 dB

Optional Accessories (sold separately)

- Wide Input (24 - 60 VDC) Power Supplies**
- SPS-2460-CC**
Piggy Back Power Supply
- SPS-2460-SA**
Stand-Alone Power Supply
- Mounting Options**
- E-MCR-05**
12-Slot Media Converter Rack
- RMS19-SA4-01**
4-Slot Media Converter Shelf
- WMBD**
DIN Rail Bracket 5.0" [127 mm]
- WMBD-FS**
DIN Rail Bracket (flat, small) 3.1" [79 mm]
- WMBL**
Wall Mount Bracket 4.0" [102 mm]
- WMBV**
Vertical Wall Mount Bracket 5.0" [127 mm]

100BASE-TX to 100BASE-FX