

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.

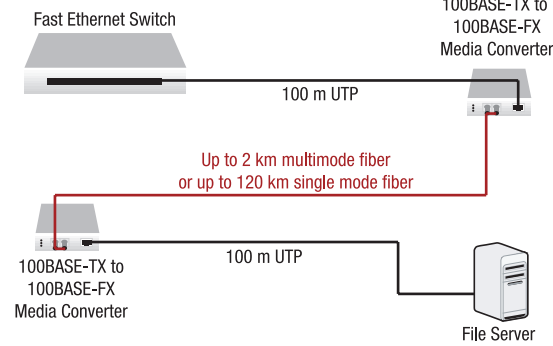
### Features

- ▶ 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	<b>SW1:</b> Auto-Negotiation On/Off <b>SW2:</b> Pause TX On/Off <b>SW3:</b> Link Pass Through On/Off <b>SW4:</b> Far-End-Fault On/Off
Jumpers	<b>Jumper Block 1:</b> AutoCross™ enable
Status LEDs	<b>PWR (Power)</b> SDF or LKF (Link Fiber) SDC or LKC (Link Copper) RXF (Receive Fiber) RXC (Receive Copper)
Dimensions	<b>Width:</b> 3.0" [76 mm] <b>Depth:</b> 4.7" [119 mm] <b>Height:</b> 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	<b>Wall Mount Power Supply:</b> 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