

Fast Ethernet 100BASE-TX to 100BASE-FX

Fast Ethernet Media Converter



▶ **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)
- ▶ Automatic Link Restoration
- ▶ Pause

The converters will automatically re-establish link when connected to two 10/100 auto-negotiating switches if link is lost. With other manufacturers' converters the user must intervene to re-establish link.

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	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 feet 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



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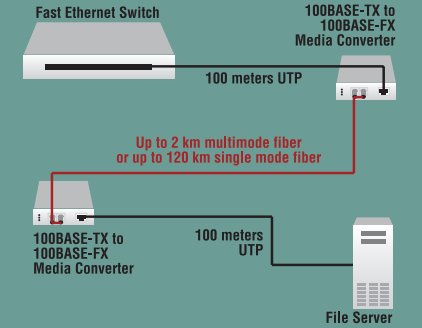
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E-100BTX-FX-05(XXXX)



single fiber model

Extend Network Distance



Ordering Info

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(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(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(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(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(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: 16.0 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(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(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(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(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(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
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	
Single Fiber Products <i>Recommended use in pairs (see page 15)</i>	
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)	

Optional Accessories

(sold separately)
Wide Input (18 – 72VDC) Power Supplies:

SPS-1872-CC
Piggy Back Power Supply

SPS-1872-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