

E-100BTX-FX-05 Series

Stand-alone Fast Ethernet Media Converter

100Base-TX to 100Base-FX



E-100BTX-FX-05

The E-100BTX-FX-05 is a stand-alone media converter that provides an interface between 100Base-TX ports and 100Base-FX ports, allowing users to integrate fiber optic cabling into 100Base-TX 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

- 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
- Auto-MDI/MDIX
- Active Link Pass Through
- Far-End-Fault (FEF)
- Pause
- Automatic Link Restoration

Specifications

Standards	IEEE 802.3 100Base-FX 100Base-TX
Switches	SW1: Auto-Negotiation On/Off SW2: Pause TX On/Off SW3: Active Link Pass Through On/Off SW4: Far-End-Fault (FEF) On/Off
Jumpers	Jumper Block 1: Auto-MDI/MDIX enable
Status LEDs	PWR (Power) SDF or LKF (Link Fiber) SDC or LKC (Link Copper) RXF (Receive Fiber) RXC (Receive Copper)
Dimensions	Width: 3" [76 mm] Depth: 4.7" [119 mm] Height: 1" [25 mm]
Power Supply	External AC/DC required: 120-240VAC input, 12VDC Output; unregulated, standard
Environment	Operating: 0°C to 50°C Humidity: 5% to 95% (non-condensing) Altitude: 0 - 10,000 ft.
Weight	2 lbs. [0.90 kg]
Compliance	Regulatory: FCC Class A, EN55024, EN55022 Class A, EN61000, CE Mark
Warranty	Lifetime

Ordering Information

E-100BTX-FX-05

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(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 multimode (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 single mode (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 single mode (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 single mode (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 single mode (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 single mode (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB

Single Fiber Products

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

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]

WMBL

Wall Mount Bracket 4" [102 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-100-BTX-FX-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