

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

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-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

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 1310nm single mode (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

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

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]