



### **Single Channel 100BaseTX-FX Media Converter**

This compact yet rugged device provides 100Base-TX/FX Media Conversion. It allows network extension over m/m fiber of 2000m (6600ft), and up to 150 km (!) over s/m fibers. It is transparent to HDX/FDX transmissions. Furthermore, it generates “FDX advertising” signals to force maximal performance on other – even non managed – network elements, thus enhancing overall network performance. The FEF (Far End Fault) mechanism supported in the device allows assures link integrity. The Fault propagation feature allows real-time alerting of link-loss for network resilience, while the TEST function provides diagnostic means.

The F.CON1 is equipped with an internal quality auto-range power supply (-48VDC power supply is optional).

The optional slide-in rack shelf allows easy yet safe installation of up to 3 F.CON1 (or S.CON1/CTF1) devices in 1U height.

### **Key Features**

- **Network extension:** maximal distances (2000m F/O, 100m STP) over multi-mode fiber
- **Flexible installation:** desk-top or shelf-mounted
- **Reliability:** internal quality power-supply
- **FEF and FDX advertising**
- **Fault Propagation with TEST function**
- **DC power supply** (optional) for Telco applications

## General Specifications

<u>Standard Compliance</u> IEEE 802.3u, 100Base-TX, FDSE 100Base-FX	<u>Conversion Method</u> <b>Pass-Thru with FDX advertising, Fault Propagation and FEF</b>
<u>100Base-TX port</u> Shielded RJ-45 Half/Full Duplex support 100m over UTP/STP Cat.5 cable	<u>100Base-FX port</u> 1310nm, multi-mode, SC connectors Distance – 2000m (6600ft) Output Power: -18dbm or better Input Sensitivity: -32dbm or better For single-mode specifications refer to DS-SM
<u>Diagnostics</u> Link F/O, Link TP, Activity, Power, TEST	<u>Controls</u> 3 DIP switches: HDX/FDX , FP/TEST and Reset

## Environmental/Physical

<u>Power-Supply</u> Internal, 100 to 240 VAC, 50-60Hz	<u>Power Consumption</u> 6 Watts maximum
<u>Operating Temperature</u> 0° to +45°C Humidity:10% to 90% non-condensing	<u>Storage Temperature</u> -20° to +80° C
<u>Safety</u> <b>UL 60950, EN 60950</b>	<u>EMC</u> <b>FCC</b> part 15, Subpart B, Class A; <b>ICES</b> 003:1997, Class A; EMC Directive 89/336/ <b>EEC</b>
<u>Dimensions</u> 120x170x40mm (4.7"x6.7"x1.6")	<u>Weight</u> 0.8 kg (1.8lb) max.

## Ordering Information

Model	P/N	Description
<b>F.CON1</b>	B050	Single Channel 100BaseTX to 100Base-FX, multimode, 2km, SC
<b>F.CON1/T</b>	B099	Single Channel 100BaseTX to 100Base-FX, multimode, 2km, ST
<b>F.CON1/SMR7</b>	B016	Single Mode (7km) F.CON1, SC
<b>F.CON1/SMR</b>	B089	Single Mode (15km) F.CON1, SC
<b>F.CON1/SM</b>	B079	Single Mode (25km) F.CON1, SC
<b>F.CON1/SM/L</b>	B100	Single Mode (40km) F.CON1, SC
<b>F.CON1/SMRF13</b>	B154	Single Fiber Strand (15km) F.CON1, 1310nmTx, 1550nmRx, SC
<b>F.CON1/SMRF15</b>	B155	Single Fiber Strand (15km) F.CON1, 1550nmTx, 1310nmRx, SC
<b>PS48</b>	B097	option, -36VDC to -72VDC for F.CON1
<b>CTF-RM</b>	B012	19" rack shelf for installation of up to 3 F.CON1 devices (1U)

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