



## Single Channel 100Base-TX/FX Media Converter

This compact yet rugged device provides 100Base-TX/FX Media Conversion. It allows network extension over m/m fiber of 2000 m (6600 ft), and up to 70 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 Fault Propagation mechanism implemented in the device allows network redundancy while the Link Test capability allows easy maintenance. 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 m/m
- **Reliability**  
internal quality power-supply
- **Flexible installation**  
desk-top or shelf-mounted
- **Fault Propagation with Link Test capability**
- **DC power supply**  
(optional) for Telco applications

## General Specifications

### Standard Compliance

IEEE 802.3u, 100Base-TX,  
100Base-FX

### Conversion Method

Pass-Thru with FDX advertising

### 100Base-TX port

Shielded RJ-45  
Half/Full Duplex support  
100m over UTP/STP Cat.5 cable

### 100Base-FX port

1310nm, multi-mode, SC connectors  
Distance – 2000m (6600ft)  
Output Power: -18dbm or better  
Input Sensitivity: -32dbm or better

### Diagnostics

Link F/O, Link TP, Activity, Power, Test Mode

### Controls

Link Test Switch, HDX/FDX Switch

## Environmental and Physical

### Power-Supply

Internal, 100 to 240 VAC, 50-60Hz

### Power Consumption

6 Watts maximum

### Operating Temperature

0° to +40°C (+32° to 104° F)  
Humidity:10% to 90% non-condensing

### Storage Temperature

-30° to +65° C (-22° to +149° F)

### Safety

UL 1950:1995, EN 60950

### EMC

FCC part 15, Subpart B, Class A; VCCI Class B;  
ICES 003:1997, Class A; EMC Directive 89/336/EEC

### Dimensions

120x170x40 mm (4.7"x6.7"x1.6")

### Weight

0.8 kg (1.8 lb) max.

## Ordering Information

### F.CON1

Single Channel 100Base-TX/FX Media Converter

### F.CON1/SM

Single Mode (25km) F.CON1

### S.CON/SM1/L/L2

Single Mode, Long-Haul options

CTF-RM - 19" rack shelf for installation of up to  
3 F.CON1 devices

### International:

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