



## Quad Channel 10Base-T to 10Base-FL Media Converter

Fiber-optic connectivity may be required in networks due to several reasons, distance being the most popular, as the copper connectivity is limited by the standard to a network span of 205 m only.

Using external multiple-channel media converters in conjunction with UTP hubs or switches has proven to be the most flexible and cost effective method, cheaper by far compared to using switches with integrated fiber-optic ports. This 19" Rack-Mountable device implements innovative Media Conversion technologies providing an unconditioned network extension

over m/m fiber of up to 3500 m (11500 ft), in any network architecture (even when such includes repeaters).

The device is fully transparent and automatically adapts to conversion of Half and Full-Duplex transmissions.

It is factory pre-configured and several CTF devices can be mixed and stacked to achieve the exact number of channels required while occupying minimal rack-space.

Along with its extensive front-panel diagnostics it ensures trouble free network design, installation and maintenance.

## Key Features

- **Top Performance**  
Maximal distances (2000 m F/O, 3500 m in FDX) in any network architecture
- **Protection of Investment**  
Extends the span and life of 10 Mbps networks
- **Rack-Space Saving**  
Only 1U high
- **Easy Network Design**  
No restrictions
- **Reliability**  
Internal power-supply, high quality optical components
- **Maintainability**  
Extensive front-panel diagnostics

## General Specifications

### Standard Compliance

IEEE 802.3, 10Base-T, 10Base-FL

### Conversion Method

Transparent to HDX/FDX

### 10Base-T ports (4)

Shielded RJ-45

Half/Full Duplex support

100m over UTP/STP Cat.5 cable

Auto-Polarity correction

### 10Base-FL ports (4)

850 nm, multi-mode, ST connectors

Distance: 2000 m (6600 ft)/3500 m (11500 ft)

Half or Full Duplex

Output Power: -15 dbm or better

Input Sensitivity: -33 dbm or better

@62.5/125  $\mu$ m fiber

### Diagnostics per Channel

Link, RCV -F/O side

Link, RCV- copper side

### Diagnostics per System

Power

## Environmental and Physical

### Power-Supply Internal

100 to 240 VAC, 50-60 Hz (auto-selection)

### Power Consumption

15 Watts maximum

### Operating Temperature

0° to +45°C (+32° to 113° 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 B; VCCI Class B;

ICES 003:1997, Class B; EMC Directive 89/336/EEC

### Dimensions

441x164x44 mm (17.3"x6.8"x1U)

### Weight

2.5 kg (5.5 lb) max.

## Ordering Information

### CTF4

19" R/M Quad Channel 10Base-T/10Base-FL

Media Converter

### CTF/SM1

Single Mode (16 km) option for one channel

### International:

**Fibrolan Ltd.**, Shaar-Yoqneam Industrial Park

P.O.Box 200, Yoqneam Illit 20692, Israel

Tel.: Int.+972-4-959-1717, Fax.: Int.+972-4-959-1718

www.fibrolan.com e-mail: info@fibrolan.com

