



## Six/Twelve 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 205m 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 6/12 channel device implements innovative Media Conversion technologies providing an unconditioned network extension over m/m fiber of up to 3500m (11500ft), 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.

The device is SNMP ready; it is supplied with the management interface included in it. All you need to turn it into a fully managed device is to plug-in the optional FNM1612 management module. This can be done in the field, even without removing the CTF6/12M from the rack. Special attention was given to allow easy installation and maintenance: redundant power-supply, directly removable (hot-swap) power-supply, extensive front-panel diagnostics and more.

## Key Features

- **SNMP ready:** Field upgrade to a fully managed device
- **Top Performance:** maximal distances (2000m F/O, 3500 m in FDX) in any network architecture
- **Rack-Space Saving:** up to 12 channels in only 1U high!
- **Easy Network Design:** no restrictions
- **Reliability:** Redundant power-supply, high quality optical components
- **Maintainability:** directly-removable/hot-swap power supply; ALL Front Panel diagnostics and connections
- **-48VDC** models for Telco applications

## General Specifications

### Standard Compliance

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

### Conversion Method

Transparent to HDX/FDX

### 10Base-T ports (6 or 12)

Shielded RJ-45

Half/Full Duplex support

100m over UTP/STP Cat.5 cable

Auto-Polarity correction

### 10Base-FL ports (6 or 12)

850nm, multi-mode, ST connectors

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

Half/Full Duplex

Output Power: -15dbm or better

Input Sensitivity: -33dbm or better

@62.5/125  $\mu$ m fiber

### Diagnostics per channel

Link, RCV - FL port

Link - 10T port

### Diagnostics per System

Power - Main

Power - Backup

## Environmental and Physical

### Power-Supply

100 to 240 VAC, 50-60Hz, integrated fan

Optional redundant PS, load-sharing

-48VDC (-36 to -72V) optional

### Power Consumption

40 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

UL listing: E206640

### EMC

FCC part 15, Subpart B, Class A; VCCI Class B;

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

### Maximal Dimensions

441x245x44mm (17.3"x9.7"x1U)

### Weight

4.1 kg (8.9lb) max.

## Ordering Information

**CTF6/M** - 19" R/M Six Channel

10Base-T / 10Base-FL Media Converter

**CTF12/M** - 19" R/M Twelve Channel

10Base-T / 10Base-FL Media Converter

**CTF/SM1** - Single Mode (16km) option for one channel

**FNM1612** - Management module

**S.CON/PS** - Redundant Power Supply (AC)

**S.CON/PS-48** - Redundant Power Supply (DC)

For SC, MTRJ or VF-45 connectors - Call FibroLAN

### International:

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