



Fast Ethernet



## 10/100BaseTX-FX Media Converter

This compact size device implements the innovative **BMD™ (Buffered Media Domain)** technology to provide an unconditioned network extension over m/m fiber of 2000m (up to 150km over s/m fiber) in any network architecture (even when such includes repeaters). Its TP port is auto-sensing to provide easy migration from 10Mbps to 100Mbps transmission rates. Special attention was given to allow easy installation and maintenance: MDI-II/MDI-X switch to eliminate crossed cables, internal quality power-supply, extensive

front-panel diagnostics and more. In case when more than one device must be installed in a wiring center, a special 19" shelf is available for easy and safe installation while occupying minimal rack-space. No PDV calculation need to be performed prior to implementing in a network - full performance is always guaranteed. FEF signaling allows constant loop-back without disruption of data flow. Single-Fiber-Strand versions save 50% of the cable plant.

## Key Features

- **Top Performance:** maximal distances (2000m m/m, 150km s/m, 100m TP) in any network architecture
- **Protection of Investment:** 10Base-T support for easy migration
- **Flexible installation:** desk-top or shelf-mounted
- **Easy Network Design:** no PDV calculations needed
- **Reliability:** internal quality power-supply
- **Maintainability:** extensive (7 LEDs/9 functions) front-panel diagnostics
- **Constant Loopback** via FEF
- **SFS for fiber - saving**

## General Specifications

**Standard Compliance**

IEEE 802.3u, 100Base-TX, 10Base-T, FDSE  
100Base-FX

**Conversion Method**

**BMD™** (Buffered Media Domain), FDX flow control,  
HDX back-pressure flow control

**Diagnostics**

F/O port: Link/Activity, Signal Detect, FDX  
TP port: Link/Activity, FDX, 100Mbps  
Power

**Controls**

FX: FDX/HDX  
TX: 10/100, FDX/HDX,  
Auto-Negotiation enable/disable, Reset

**10/100Base-TX port**

Shielded RJ-45  
Half/Full Duplex support via auto-negotiation or forced  
100m over UTP/STP Cat.5 cable  
Auto-Polarity correction  
MDI-II/MDI-X selection  
10Base-T support via auto-sensing or forced

**100Base-FX port**

1310nm, multi-mode, duplex SC/ST  
Distance - 2000m (6600ft)  
Half or Full Duplex (DIP switch selectable)  
Output Power: -18dbm or better  
Input Sensitivity: -32dbm or better  
FEF Signaling  
Single Mode 7/15/25/40/70/110/150km - see  
separate table  
Single-Fiber-Strand 15/20km

## Environmental and Physical

**Power-Supply**

Internal, 100 to 240 VAC, 50-60Hz

**Power Consumption**

6 Watts maximum

**Operating Temperature**

0°C ÷ +45°C

**Storage Temperature**

-30°C ÷ +80°C

**Humidity**

10% ÷ 90% non-condensing

**Safety**

UL 1950:1995, EN 60950

**EMC**

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

**Dimensions**

120x170x40mm (4.7"x6.7"x1.6")

**Weight**

0.5 kg (1.1lb) max.

## Ordering Information

<b>S.CON1</b>	Single Channel 10/100TX-FX converter, BMD,SC, M/M 2km
<b>S.CON1/T</b>	Single Channel 10/100TX-FX converter, BMD,ST, M/M 2km
<b>S.CON1-48</b>	Single Channel 10/100TX-FX converter, BMD,SC, M/M 2km, 48VDC PS
<b>S.CON1/SMR7</b>	Single Channel 10/100TX-FX converter, BMD,SC, S/M 7km, 1310nm
<b>S.CON1/SMR</b>	Single Channel 10/100TX-FX converter, BMD,SC, S/M 15km, 1310nm
<b>S.CON1/SM</b>	Single Channel 10/100TX-FX converter, BMD,SC, S/M 25km, 1310nm
<b>S.CON1/SM/L</b>	Single Channel 10/100TX-FX converter, BMD,SC, S/M 40km, 1310nm
<b>S.CON1/SM/L2</b>	Single Channel 10/100TX-FX converter, BMD,SC, S/M 70km, 1310nm
<b>S.CON1/SM/L3</b>	Single Channel 10/100TX-FX converter, BMD,SC, S/M 100km, DFB 1550 nm
<b>S.CON1/SM/LX</b>	Single Channel 10/100TX-FX converter, BMD,SC, S/M 150km, DFB 1550 nm
<b>S.CON1/SM/F1</b>	Single Channel 10/100TX-FX converter, BMD,SC, Single-Fiber-Strand, S/M 20km, 1310/1310nm
<b>S.CON1/SMRF15</b>	Single Channel 10/100TX-FX converter, BMD,SC, Single-Fiber-Strand, S/M 15km, 1550/1310nm
<b>S.CON1/SMRF13</b>	Single Channel 10/100TX-FX converter, BMD,SC, Single-Fiber-Strand, S/M 15km, 1310/1550nm
<b>ETR</b>	Extended Temperature Range (-10°÷+70°C) option for all H.CON and S.CON1 converters
<b>CTF-RM</b>	19" Rack shelf for installation of up to 3 devices

Specifications subject to change without prior notice

**International:**

**Fibrolan Ltd.**, Yoqneam Star Building  
P.O.Box 544, Yoqneam Illit 20692, Israel  
Tel.: Int.+972-4-959-1717, Fax.: Int.+972-4-959-1718  
www.fibrolan.com e-mail: info@fibrolan.com