

### Twelve Channels 100BaseTX-FX Media Converter with Telco Connector

This 19" Rack-Mountable device is a multiple-channel 100Base-TX/FX Media Converter providing 12 independent conversion channels housed in a slim 1U chassis. Each individual channel allows network extension over m/m fiber of 2000m, 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 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 insert the optional FNM1613 management module. This can be done in the field, even without removing the F.CON12 from the rack. The Fault Propagation feature will disconnect the TP port (connected to a switch/router) once failure of the respective F/O port is detected to trigger initiation of a redundant path, while the link test capability allows easy maintenance. The FEF (Far End Fault Signaling) compatibility provides a true indication of the fiber link integrity. All 12 TP connections to the network switch or patch panel are done thru a "Telco" cable for easy installation and space saving.

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. It is factory pre-configured and several F.CON12 devices can be mixed and stacked to achieve the exact number of channels required while occupying minimal rack-space.

The F.CON12/MA/TL is MA™ enabled: when managed (FNM1613 inserted) and remote unit is MA™ as well, it will fully control it without the need of an SNMP agent or IP address allocation at the remote unit. If non-managed or when remote device is not MA enabled, the F.CON12/MA/TL automatically falls-back to normal M/C function.

#### Key Features

- ❑ **SNMP ready** - field upgrade to fully managed device
- ❑ **Top Performance:** maximal distances - up to 150km over s/m/f
- ❑ **Telco connector** for easy installation
- ❑ **Rack-Space Saving:** 12 channels in a 1U high enclosure
- ❑ **Reliability:** redundant load sharing power-supply
- ❑ **Maintainability:** directly-removable/hot-swap power-supply and fans
- ❑ **FDX advertising** to get more from your network
- ❑ **Fault Propagation with Link Test** capability
- ❑ **-48VDC** models for Telco applications
- ❑ **MA™** enabled

## General Specifications

<b>Standard Compliance</b> IEEE 802.3u, 100Base-TX , 100Base-FX	<b>Conversion Method</b> Pass-Thru with FDX advertising
<b>100Base-TX ports (12)</b> One TELCO connector Half/Full Duplex support 15m over special cable	<b>100Base-FX ports (12)</b> 1310nm, m/m/f, SC connectors Distance : 2,000m Output Power: -18dbm or better Input Sensitivity: -32dbm or better See DS-DSM data sheet for performance of s/m models
<b>Diagnostics per channel</b> F/O Link/Activity T/P Link/ Activity	<b>Controls per channel</b> FDX/HDX* (per each 6 channels) Link Test (per 6 channels) *HDX mode disables MA
<b>Diagnostics per System</b> Power - 1 for Main PS, 1 for Back-up PS Test Mode (per 6 channels)	<b>Controls per system</b> Reset
<b>Management Section</b> RJ-45 10Base-T , MinDIN RS-232 for setup 3 LEDs for Link, Activity and status	

## Environmental/Physical

<b>Power-Supply</b> 2* 100 to 240 VAC, 50-60Hz, integrated fan -48VDC (36-72V) PS - optional	<b>Power Consumption</b> 40 Watts maximum
<b>Operating Temperature</b> 0° ÷+45°C Humidity:10% to 90% non-condensing	<b>Storage Temperature</b> -20° ÷+80° C
<b>Safety</b> UL/cUL EN 60950	<b>EMC</b> FCC part 15, Subpart B, Class A; ICES 003:1997, Class A; EMC Directive 89/336/EEC
<b>Dimensions</b> 441x265x44mm (17.3"x10.4"x1U)	<b>Weight</b> 4.1 kg (8.9lb) max.

## Ordering Information

Part #	Model	Description
3508	F.CON12/MA/TL	19" R/M 12 Channel 100BaseTX-FX Media Converter, Telco, M/M , MA™
3509	F.CON12/MA/TL/SMR7	19" R/M 12 Channel 100BaseTX-FX Media Converter, Telco, SM 7km, MA™
3510	F.CON12/MA/TL/SMR	19" R/M 12 Channel 100BaseTX-FX Media Converter, Telco, SM 15km, MA™
3511	F.CON12/MA/TL/SM	19" R/M 12 Channel 100BaseTX-FX Media Converter, Telco, SM 25km, MA™
3512	F.CON12/MA/TL/SM/L	19" R/M 12 Channel 100BaseTX-FX Media Converter, Telco, SM 40km, MA™
3601	FNM1613	SNMP Management Module for F.CON8/16/12TL models
2105	FPS5033D	- 36VDC ÷-72VDC Power Supply

For **ST, VF-45 or MTRJ** connectors - Call FibroLAN  
For distances larger than **40km** or SFS models - Call FibroLAN

*Specifications subject to change w/o prior notice*

**FibroLAN Ltd.** P.O. Box 544 Yoqneam Illit 20692 ISRAEL  
Tel.: Int.+972-4-959-1717 Fax.:Int.+972-4-959-1718  
[www.fibrolan.com](http://www.fibrolan.com) [info@fibrolan.com](mailto:info@fibrolan.com)