



Sixteen Channels 100BaseTX-FX Media Access Concentrator

This 19" Rack-Mountable device is a multiple-channel 100Base-TX/FX Media Access Concentrator providing 16 (or 8) independent conversion channels housed in a slim 1U chassis making it the highest density solution available. Each individual channel allows network extension of up to 150km. 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. It may be ordered with or without the optional FNM1613 management module or such may be inserted later on in the field.

The Selective Fault Propagation feature will disconnect the TP ports (connected to the switch/router) once a FO link failure is detected, to trigger initiation of a redundant path and vice versa. This function may be disabled for

maintenance or other purposes by the "Link Test" switch and via management. The revolutionary **SLE** (Subscriber Link Emulation) will disconnect a TP port when a failure of the subscriber connected to the remote (MA enabled) device is detected - without affecting the F/O link. The FEF (Far End Fault signaling) compatibility provides a true indication of the fiber link integrity. Special attention is given to easy installation and maintenance: redundant power-supplies (F.CON16), directly removable (hot-swap) power-supplies, extensive front-panel diagnostics and more. The TP ports feature Auto-Cross to avoid need for crossed patch-cords.

The **F.CON16/MA** is MA™ enabled: a remote MA™ enabled unit will be fully controlled by the **F.CON16/MA**, without the need of an SNMP agent or IP address allocation at the remote unit. If the remote device is not MA enabled, the F.CON16/MA automatically falls-back to normal M/C function.

Key Features

- **SNMP ready** - fully managed when optional FNM1613 installed
- **Rack-Space Saving:** Record Density of 16 channels in a 1U high enclosure
- **Reliability:** dual redundant power-supplies
- **Maintainability:** directly-removable, hot-swap power-supplies and fans
- **FDX advertising** to get more from your network
- **MA™** enabled for remote management of CPEs
- **Fault Propagation, SLE and FEF**
- Auto-Cross ports for easy installation

General Specifications

Standard Compliance

IEEE 802.3u, 100Base-TX
100Base-FX
100Base-TX ports x16 (8) -front panel
Shielded RJ-45
Half/Full Duplex support
100m over UTP/STP Cat.5 cable
Auto-Cross
Auto Polarity correction

Diagnostics

Per Channel: Link/Activity - F/O, Link-Activity T/P
System: Power (Dual: main and redundant power-supply)

MA™ compliance: full management of remote MA™ enabled devices (see separate data sheet)

Conversion Method

Pass-Thru with FDX advertising
Selective Fault Propagation, Link Test switch, SLE
100Base-FX ports x16(8) - front panel
Connectors: m/m/f: SC, ST, MTRJ, 1310nm
Output Power: -18dbm min.
Receive Sensitivity: -32dbm or better
FEF compliant
See DS-SM for s/m/f models specifications

Controls per each 8 channels

Reset, HDX*/FDX, Link Test
*MA is disabled in HDX mode

Management Section

RJ-45 10Base-T +crossover switch ; MinDIN RS-232 for setup; 3 LEDs for Link, Activity and Readiness

Environmental and Physical

Power-Supply (x2 in F.CON16)

100:240 VAC, 50:60Hz, integrated fan, load-sharing
optional - -48VDC (-36: -72VDC)

Temperature:

Operating: 0° ÷ + 45°C
Storage: -20° ÷ + 80°C

Dimensions

441x265x44mm (17.3"x10.4"x1U)

Safety

UL 1950:1995, EN 60950

Power Consumption

50 Watts maximum

Humidity:

10% ÷ 90% non-condensing

Weight

4.5 kg max.

EMC

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

Installation

Desk-Top or 19" Rack (Brackets included)

Ordering Information

Part #	Model	Description
3501	F.CON8/MA	8 Channel 100TX-FX, 19", 1U, m/m 1310nm, 2km, SC, Management Ready, MA
3502	F.CON8/MA/ST	8 Channel 100TX-FX, 19", 1U, m/m 1310nm, 2km, ST, Management Ready, MA
3503	F.CON8/MA/SMR7	8 Channel 100TX-FX, 19", 1U, s/m 1310nm, 7km, SC, Management Ready, MA
3504	F.CON8/MA/SMR	8 Channel 100TX-FX, 19", 1U, s/m 1310nm, 15km, SC, Management Ready, MA
3505	F.CON8/MA/SM	8 Channel 100TX-FX, 19", 1U, s/m 1310nm, 25km, SC, Management Ready, MA
3506	F.CON8/MA/SM/L	8 Channel 100TX-FX, 19", 1U, s/m 1310nm, 40km, SC, Management Ready, MA
3507	F.CON8/MA/SMRF15	8 Channel 100TX-FX, 19", 1U, s/m 1310nm, SFS 1550nm Transmit/1310nm Receive 15km, single SC, Management Ready, MA
3513	F.CON16/MA	16Channel 100TX-FX, 19", 1U, m/m 1310nm, 2km, SC, dual PS, Management Ready, MA
3514	F.CON16/MA/ST	16Channel 100TX-FX, 19", 1U, m/m 1310nm, 2km, ST, dual PS, Management Ready, MA
3517	F.CON16/MA/SMR7	16Channel 100TX-FX, 19", 1U, s/m 1310nm, 7km, SC, dual PS, Management Ready, MA
3518	F.CON16/MA/SMR	16Channel 100TX-FX, 19", 1U, s/m 1310nm, 15km, SC, dual PS, Management Ready, MA
3516	F.CON16/MA/SM	16Channel 100TX-FX, 19", 1U, s/m 1310nm, 25km, SC, dual PS, Management Ready, MA
3519	F.CON16/MA/SM/L	16Channel 100TX-FX, 19", 1U, s/m 1310nm, 40km, SC, dual PS, Management Ready, MA
3520	F.CON16/MA/SMRF15	16Channel 100TX-FX, 19", 1U, s/m 1310nm, SFS 1550nm Transmit/1310nm Receive 15km, single SC, Management Ready, MA
3601	FNM1613	SNMP Management module for F.CON8/16 and F.CON12/MA/TL series
2106	FPS5033A	Redundant PS 100 ÷ 240VAC for the F.CON8/16 and F.CON12/MA/TL series
2107	FPS5033D	Redundant PS -36 ÷ -72VDC for the F.CON8/16 and F.CON12/MA/TL series

For VF-45 or MTRJ connectors - Call FibroLAN

For distances larger than 40km - Call FibroLAN

Specifications subject to change without prior notice

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