FibroLAN Access

F.CON1/MA

Fast Ethernet

Remotely Controlled CPE/Fiber to Fiber Converter

The F.CON1/MA is a layer one CPE for FTTx or corporate networks that can be remotely managed and maintained, eliminating the need of a costly SNMP agent and scarcely available IP addresses. It converts 100Base-FX signals from the CO into 100Base-TX signals connected to the user. It is transparent to frame size, thus ensuring interoperability with any 100Base-TX devices. The F.CON1/MA has been designed as a simple and reliable device, and a rich, comprehensive set of monitoring and control functions is available from any master unit (MA™ enabled) located at the CO or network center. The device is housed in a rugged metal case with free-air cooling and is equipped with an internal wide-range switching power supply for safety, ease of installation and reliability. Optional DC powered and industrial temperature range models are available. Distance ranges from 2km over MM fiber up to 150km over SMF. The F.CON1/MA is also available in SFS (Single Fiber Strand) versions saving up to 50% on the cable plant, an extremely significant factor in FTTx economy.
This unit is suitable for desktop, shelf and wall-mounted installations. It does not require any kind of setup and does not have any external/internal controls, minimizing installation time.

Key Features

- **Far End Fault (FEF) feature**- for FO link integrity test
- **Fault Propagation mechanism**-for enhanced resiliency
- **Subscriber Link Emulation (SLE)** - for mission critical networks
- **In -band MA™** Access management
- Managed by FibroLAN ***MetroView*** Device Manager

Remote Management Functions

When the F.CON1/MA is connected over its fiber link to a remote device that is MA™ enabled and SNMP managed (***MetroStar*** module), the following management functions can be implemented on the F.CON1/MA device via CLI serial connection or a Telnet connection:

CPE status

F/O-link, TP- Link status
Channel upstream bandwidth (100Mbps)
Channel Flow Control (Pause enable/disable)
TP port enabled/disabled
Flow Control (Pause) enabled/disabled
Fault Propagation status
Firmware revision status

CPE control

Set Upstream Bandwidth (from 256/512Kbps, 1,2…8,9, 10, 20 and up to 100Mbps)
Enable/Disable UNI port
Set Flow Control (Pause enabled/disabled)
Set Fault Propagation (FO->TP) enable / disable
SLE (Subscriber Link Emulation) enable /disable (from remote MA management)
Reset device and Restore the device's defaults

When the attached remote device is not MA™ enabled, the F.CON1/MA switches automatically to an unmanaged CPE/Media Converter operation, consequently avoiding any interoperability issues.

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General Specifications

Standard Compliance:
IEEE802.3/802.3u, 100Base-TX, 100Base-FX

TP Port
Shielded RJ-45, **Auto-Cross**, 100m over STP Cat. 5 cabling or better.
Preset to 100Base-TX and FDX

Diagnostic LEDS
Power ON, TP Link/Activity, F/O Link/Activity, MA Active

Conversion Method
Layer 1 transparent conversion with FDX advertising

FX Port
Duplex SC or ST, FDX, MM 1310nm - output power -18dbm min., Sensitivity -32dbm or better. For SM fiber specifications - refer to FibroLAN Data Sheet DS-FO.

Management
Remote MA™ based
Managed by FibroLAN ***MetroView*** Device Manager

Environmental and Physical

Power-Supply:
Internal, 100÷240VAC, 50÷60Hz, IEC connector
-48VDC (-36 ÷ -72VDC) Optional DC Power Supply (PS 48)

Power Consumption:
4 Watts max.

Temperature: 0°C÷ +45°C
Optional Industrial Temperature Range (ETR)
Storage: -20°÷+80°C

Dimensions: 120x170x44mm

EMC- designed to meet:
FCC part 15, Subpart B, Class A
EMC Directive 89/336EEC

Safety
Designed to meet: EN60950

Humidity:
10% ÷ 90% non-condensing
Installation: Desktop, shelf, rack mount

Weight: 400gr

Ordering Information

Part #	Model	Description
3401	F.CON1/MA	100TX-FX Converter/Access device, Duplex SC connectors, MMF, 2km, 1310nm, MA managed
3402	F.CON1/MA/T	100TX-FX Converter/Access device, Duplex ST, MMF, 2km, 1310nm, MA managed
3404	F.CON1/MA/SMR7	100TX-FX Converter/Access device, Duplex SC, SMF, 7km, 1310nm, MA managed
3403	F.CON1/MA/SMR	100TX-FX Converter/Access device, Duplex SC, SMF, 15km, 1310nm, MA managed
3405	F.CON1/MA/SM	100TX-FX Converter/Access device, Duplex SC, SMF, 25km, 1310nm, MA managed
3406	F.CON1/MA/SM/L	100TX-FX Converter/Access device, Duplex SC, SMF 40km, 1310nm, MA managed
3407	F.CON1/MA/SMFR13	100Base-TX to 100Base-FX Converter/Access device, Simplex SC, SM, SINGLE FIBER STRAND, 15km, 1310nm transmit/1550nm receive, MA managed
B097	PS48	DC (-36÷-72VDC) PS instead of AC PS
B216	PS24	DC 18÷36VDC) PS instead of AC PS
B151	CBPS-DC48V	DC Power Supply cable (for PS24 and PS48), 2m
B098	ETR	Extended Temperature Range (-10°C÷+70°C) option
B012	CTF-RM	19" Rack shelf for installation of up to 3 F.CON1/MA
B161	SCH-WM	Wall mount kit

Specifications are subject to change w/without prior notice

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