FibroLAN

Access

F.CON6/12

Fast Ethernet

Six/Twelve Channels 100BaseTX-FX Media Converter

This 19" Rack-Mountable device is a multiple-channel 100Base-TX/FX Media Converter providing 6 or 12 independent conversion channels housed in a slim 1U chassis. Each individual channel allows network extension over m/m fiber of 2000m (6600ft), and 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 plug-in the optional FNM1612 management module.

This can be done in the field, even without removing the F.CON from the rack. The Fault Propagation mechanism implemented in the device allows network redundancy while the link test capability allows easy maintenance. 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.CON devices can be mixed and stacked to achieve the exact number of channels required while occupying minimal rack-space.

Key Features

- **SNMP ready** - field upgradeable to a fully managed device
- **Top Performance**: maximal distances (2000m F/O, 100m STP) and up to 150km over s/m fiber
- **Rack-Space Saving**: 12 channels in an 1U high enclosure
- **Reliability**: redundant (optional) power-supply

- **Maintainability**: directly-removable/hot-swap power-supply
- **FDX advertising to get more from your network**
- **Fault Propagation** with **Link Test capability**
- **-48VDC models** for **Telco applications**

General Specifications

Standard Compliance
IEEE 802.3u, 100Base-TX, 100Base-FX

100Base-TX ports (6 or 12)
Shielded RJ-45
Half/Full Duplex support
100m over UTP/STP Cat.5 cable
Auto Polarity correction

Diagnostics Per System
Link F/O, Link T/P, Activity

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

Conversion Method
Pass-Thru with FDX advertising

100Base-FX ports (6 or 12)
1310nm, multi-mode, duplex SC (ST) connectors
Distance - 2000m
Output Power: -18dbm or better, Input
Sensitivity: -32dbm or better
See DS-SM for s/m/f models specifications

Controls per channel
FDX/HDX

Environmental and Physical

Power-Supply
100 ⋮ 240 VAC, 50 ⋮ 60Hz, integrated fan
Redundant PS, load-sharing (included in F.CON12,
optional for F.CON6)
-48VDC (36 ⋮ 72VDC) optional

Temperature
Operating: 0° ⋮ +40°C
Storage: -20° ⋮ +80°C
Humidity: 10% ⋮ 90% non-condensing

Safety
UL 1950:1995, listed as E206640, EN 60950

Dimensions
441x245x44mm

Power Consumption
40 Watts maximum

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

Weight
4.1 kg max.

Ordering Information

Part #	Model	Description
B051	F.CON6	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, multi-mode 2km, management ready ,internal PS.
B055	F.CON6/ST	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, ST, multi-mode 2km, management ready ,internal PS.
B056	F.CON6/MT	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, MTRJ multi-mode 2km, management ready ,internal PS.
B067	F.CON6-48	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, multi-mode 2km, management ready ,internal -48VDC PS.
B068	F.CON6/SM	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 25km, management ready ,internal PS.
B138	F.CON6/SMR7	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 7km, management ready ,internal PS.
B139	F.CON6/SMR	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 15km, management ready ,internal PS.
B140	F.CON6/SM/L	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 40km, management ready ,internal PS.
B141	F.CON6/SMRF15	Six Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode SINGLE FIBER STRAND 1550nm, 15km, management ready ,internal PS.
B052	F.CON12	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, multi-mode 2km, management ready, internal PS. Dual Redundant Power Supply.
B101	F.CON12/ST	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, ST, multi-mode 2km, management ready, internal PS. Dual Redundant Power Supply.
B102	F.CON12/MT	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, MTRJ, multi-mode 2km, management ready, internal PS. Dual Redundant Power Supply.
B069	F.CON12-48	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, multi-mode 2km, management ready, Dual internal -48VDC PS. ST, VF-45 and MT-RJ connectors optional
B070	F.CON12/SM	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 25km, management ready, Dual Redundant PS
B142	F.CON12/SMR7	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 7km, management ready, Dual Redundant PS
B143	F.CON12/SMR	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 15km, management ready, Dual Redundant PS
B144	F.CON12/SM/L	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 40km, management ready, Dual Redundant PS
B145	F.CON12/SMRF15	12 Channel 19" R.M., 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode single fiber strand 15km, 1550nm Tx/1310 Rx, management ready, Dual Redundant PS.
B033	FNM1612	SNMP Management module for F.CON12 series.
B023	S.CON/PS	Redundant AC (90-240VAC) Power-Supply for F.CON6 series, includes integrated fan.
B066	S.CON/PS-48	Redundant DC (-36 ⋮ -72 VDC) Power-Supply for F.CON6 series, includes integrated fan.

Specifications subject to change without prior notice

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