



Six/Twelve Channels 100Base-TX-FX Media Converter

The F.CON6/12, a 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 MM fiber up to 2000m and up to 150 km over SM fibers. It is transparent to HDX/FDX transmissions. Furthermore, it generates "FDX advertising" signals to force the best connectivity on other - even unmanaged - 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 device from the rack. The bi-directional Fault Propagation mechanism (FO>TP and TP>FO) implemented in the device allows network redundancy while the link test capability allows easy maintenance. Special attention is 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 Summary

- **SNMP ready** - field upgrade to fully managed device
- **Top Performance:** maximal distances (2000m MM, 100m STP and up to 150km over SM 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
- **Bi-directional Fault Propagation with Link Test capability**
- **-48VDC models for Telco applications**
- **FibroLAN's MetroView** monitors and controls the managed versions

General Specification

Standard Compliance

IEEE802.3u, 100Base-TX, 100Base-FX

100Base-TX ports (6 or 12)

Shielded RJ-45

Half/Full Duplex support

100m over STP Cat.5 cable

Auto-Polarity correction

Diagnostic LEDs per channel

Link F/O, Link T/P, Activity

Diagnostic LEDs per System

Power (Dual, if redundant power-supply present)

Test Mode (per 6 channels)

Management Interface

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)

Default setting : 100Mbps FDX

1310nm, multi-mode, SC (ST) connectors

Distance - 2000m, Output Power: -18dBm or better, Input Sensitivity: -32dBm or better

Refer to Data Sheet DS-SMR0406 for SMF models specifications

specifications

DIP Switches setup

FDX/HDX for each channel (TP and F/O port)

Fault Propagation (DIP Switch S7): for 6 channels

Normal (UP) FP enabled. Test (Down)

Default setting: Test Mode (FP disabled)

Controls per Device

Link Test (per 6 channels)

Reset (common to all channels)

Environmental / Physical
Power-Supply

100 ÷ 240 VAC, 50 ÷ 60Hz, integrated fan
Optional redundant PS, load-sharing (included in F.CON12)

-48VDC (36 ÷ 72V) optional

Operating Temperature

0° ÷ +40°C

Humidity: 10% ÷ 90% non-condensing

Safety

UL 60950, EN 60950

EMC

ETSI 300 386 V1.3.2, EN55022 Class A
EN55024, EN 6100-4-x

Power Consumption

40 Watts maximum

Storage Temperature

-20° ÷ +80° C

Dimensions

441x245x44mm

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. Redundant Power Supply - optional.
B055	F.CON6/ST	Six Channel 19" R.M, 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, ST, multi-mode 2km, management ready. Redundant Power Supply - optional.
B056	F.CON6/MT	Six Channel 19" R.M, 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, MTRJ multi-mode 2km, management ready. Redundant Power Supply - optional.
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. Redundant Power Supply - optional.
B138	F.CON6/SMR7	Six Channel 19" R.M, 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 7km, management ready. Redundant Power Supply - optional.
B139	F.CON6/SMR	Six Channel 19" R.M, 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode 15km, management ready. Redundant Power Supply - optional.
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. Redundant Power Supply - optional.
B141	F.CON6/SMRF15	Six Channel 19" R.M, 1U, 100Base-TX to 100Base-FX converter, Direct Conversion, SC, single-mode SINGLE FIBER STRAND TX/1550nm, 15km, management ready. Redundant Power Supply - optional.
B052	F.CON12	12 Channel 19" R.M., 1U , 100Base-TX to 100Base-FX converter, Direct Conversion, SC, multi-mode 2km, management ready. 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. 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. 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 1550nm 15km, management ready. Dual Redundant PS
B033	FNM1612	SNMP Management module for F.CON6/12 series
B023	S.CON/PS	Redundant AC (90-240VAC) Power-Supply for F.CON12 series, includes integrated fan
B066	S.CON/PS-48	Redundant DC (36-72 VDC) Power-Supply for F.CON12 series, includes integrated fan

Specifications are subject to change w/without prior notice

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