

Fast Ethernet Media Converter 100Base-TX/100Base-FX

Description:

The DieMount media converter allows the direct coupling of twisted pair cable (100Base-TX) and Standard Duplex POF (100Base-FX) in a standard Ethernet network (IEEE 802.3u).

LED indicators inform about the status of the converter and can be used for network diagnostics.

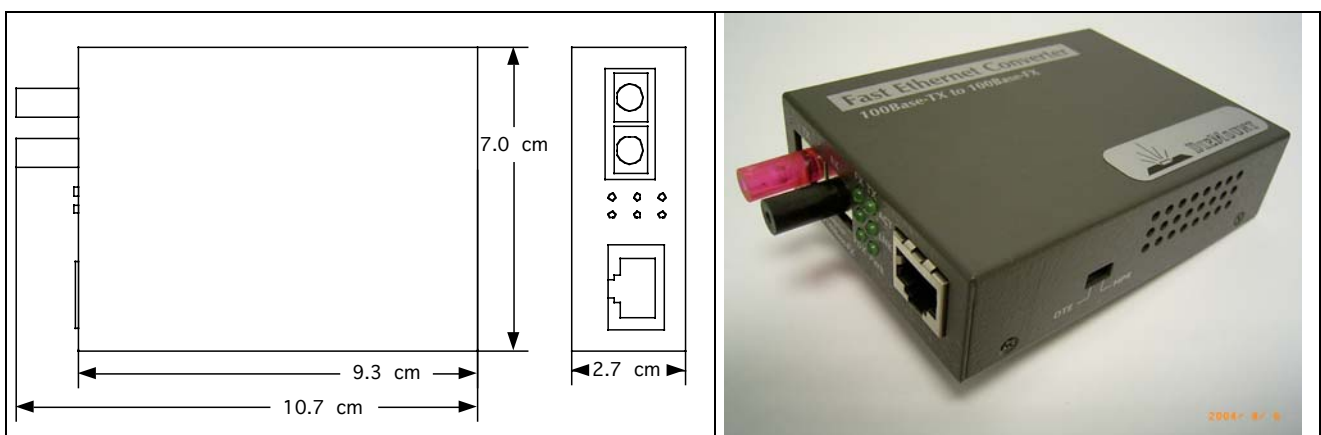
Technical Data

Type	Fast Ethernet media converter for coupling between twisted pair (100Base-TX) and POF (100Base-FX)
fiber type	standard duplex POF 0 m up to 70 m (outside cable diameter 2.2mm)
data rate net	100 Mbit/s
power supply	5V DC, 2A over an external enclosed plug power supply
dimensions	26 x 70 x 97 mm (H x W x D)
ambient temp.	0°C to 50°C non condensing
humidity	5% to 90%
LED indicators	PWR, TX LNK/ACT, FX LNK/ACT, FDX

Optical transceiver Parameters

Standard duplex POF (NA = 0,5)	wavelength	647nm
	typ. max. distance	70m
	typ. transmitted optical power	-3,0dBm
	typ. receiver sensitivity	-20,0dBm
	spectral width (FWHM)	18nm

Housing:

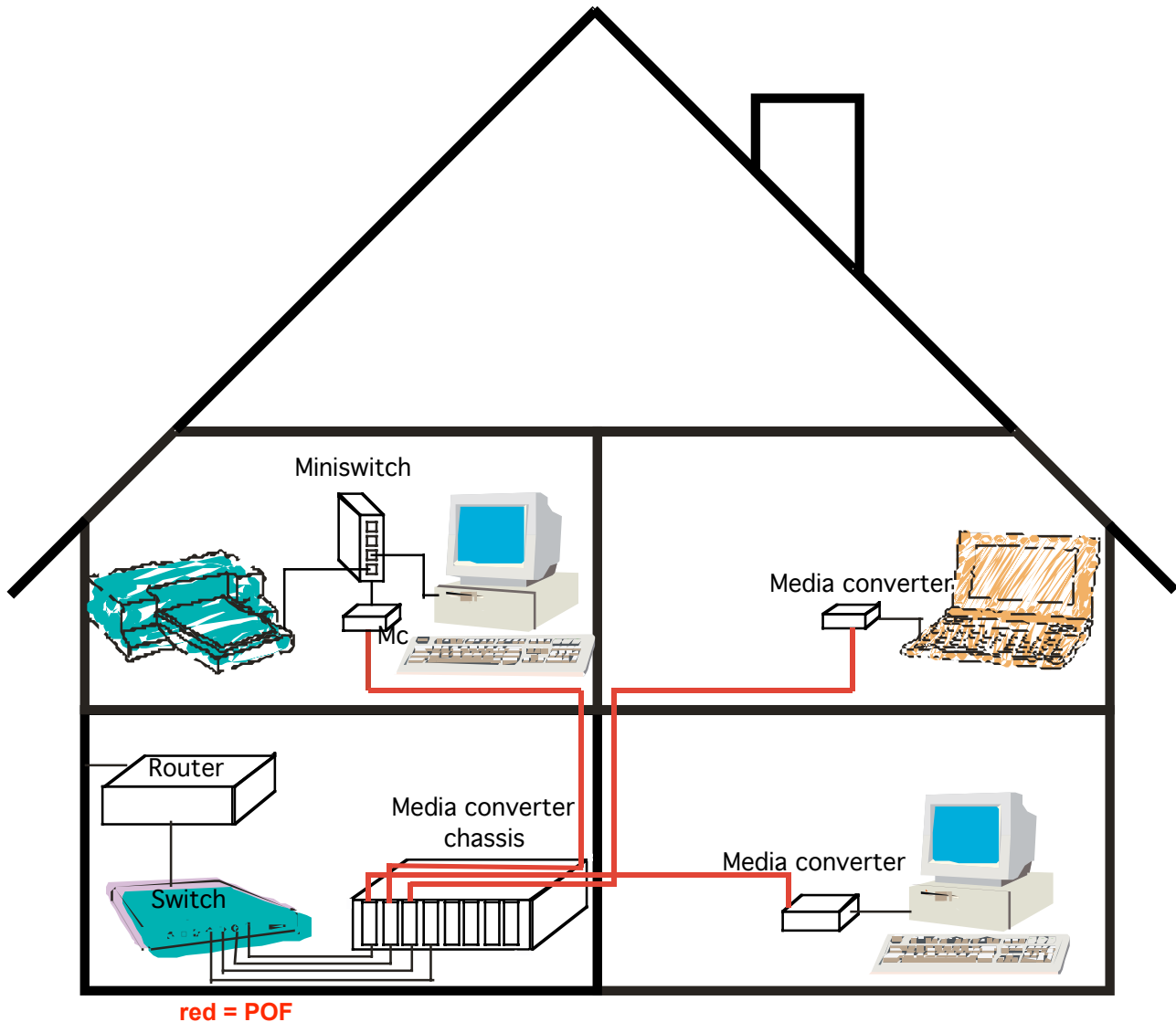


A wall mount is available as an option.

Typical application

An uncrossed cable (MPR) connects the media converter to a switch. Terminal equipment is connected to the media converter by uncrossed cable (DTE), too. An integrated cross switch can cross the media converter port.

A typical installation connects several media converters mounted in a media converter chassis with a common power supply to the router/switch unit electrically. A POF cable transmits the optical data to the terminal equipment. There, a further media converter transforms the optical signal back to the electrical level. If more than one port for terminal equipment units is necessary in close vicinity, a miniswitch can be used. In this way the media converter is able to solve flexible all network requirements.



Bidirectional one fiber media converters

Media converters comprising transceivers for bidirectional full duplex operation over one fiber only (simplex instead of duplex) are in preparation. The maximum transmission length of simplex systems is 30 to 40m.

PCI cards and switches with POF ports are available, too.

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