MF100 SERIES
FAST ETHERNET MEDIA CONVERTER WITH INTERNAL POWER SUPPLY

The MF100 series of Media Converter with internal power supply are compact, cost-effective, low dissipative, highly reliable device for converting data signal between 10/100BaseTx and 100BaseFx Fast Ethernet with bridging mode. The 10/100Mbps Media Converter is a compact product housed in a metal case, as do all MF100 Series Media Converters, and comply with CE & FCC emission standard. The MF100 series consist of a series of 10/100BaseTX to 100BaseFX Media Converters. This compact size, switch based converter works just like a bridging L2 with 2 port switch rather than a traditional L1 converter. User now m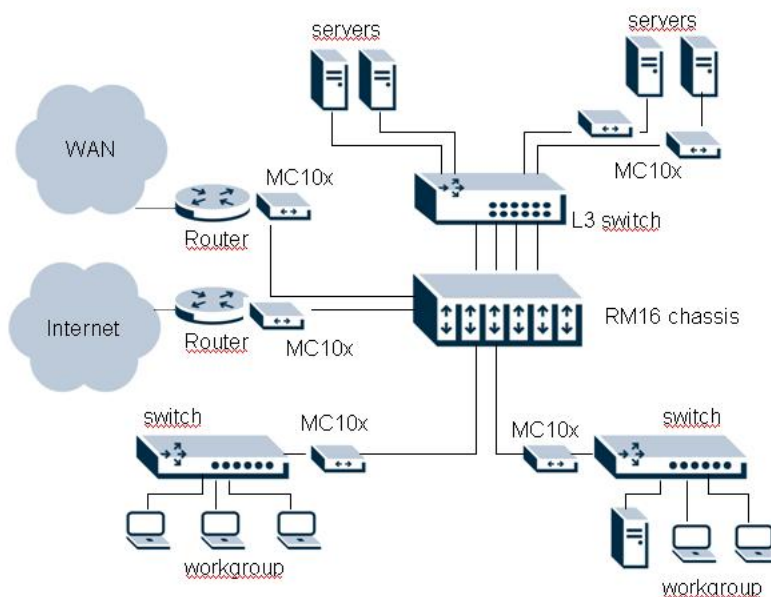ay upgrade or extend their existing 100BaseTX or even 10BaseT network into fibre network easily. All MF100 Series are fully compliant with IEEE802.3 and 802.3u standard. The RJ45 (STP) ports of all MF100 Series support Auto-negotiation function, provide a maximum bandwidth of up to 200Mbps (100Mbps Full Duplex) or up to 20Mbps (10Mbps Full Duplex) for distances of up to 2Km, when using Multi-mode fibre cable; or over 120Km, when using Single-mode fibre cable. Installation and operation of the MF100 Series is simple and straightforward. In addition, built-in power supply eliminates the need of external power adapter. The MF100 series could be plugged into RM16 Chassis and are also compatible with any other products featuring a 100BaseFX interface.

KEY FEATURES

> IEEE 802.3 & 802.3u Fast Ethernet standard compliant
> LED Indication: FX-100, FX-Link/Act, TX-100, TX-Link/Act, FDX, PWR
> 1 x RJ45 STP 10/100TX Ethernet port and 1 x 100BaseFX port
> 100BaseTX port at 10/100 Mbps Auto-sensing and Full/Half Duplex Auto-negotiation
> Voltage supervisor
> Internal power supply
> Dual Port 10/100Mbps switch inside
> Wavelength 850nm /1.310nm (MM) and 1.310nm/1.550nm (SM) selectable
> Rugged Metal Case

APPLICATION

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TECHNICAL HIGHLIGHTS

SPECIFICATION

Standards: IEEE 802.3 10BaseT, IEEE 802.3u 100BaseTX/FX,
Interface: One 100BaseFX Multimode or Single mode (SC connectors), 1 x RJ45
Switching Method: Store and Forward
Packet buffer: 256 KBytes
MAC Table: 8.000 entries
Operating Temperature: 0° ~ 40° C
Storage Temperature: -40° ~ 85° C
Humidity: 5-90% (non condensing)
Power: 110-240V,50-60Hz , switch on-off button
LED: TX1/SPD, TX2/SPD, TX1/FDX. TX2/FDX, LINK, POW,
Safety Standards: Electrical: UL , CSA
EMI: FCC Part 15 Class B, CE

DIMENSION

Size: 122 x 86 x 22 mm (W x D x H)
Weight: 630 g (Net Weight)

TYPICAL OPTICAL POWER BUDGET

TYPE	MF101	MF102	MF103	MF104	MF105	MF108
Connector	SC duplex	SC duplex	SC duplex	SC duplex	SC duplex	SC duplex
Wavelenght	1310 nm	1310 nm	1310 nm	1310 nm	1310 nm	1310 nm
Typical Distance	2 km	25km	40km	60km	120km	2 km (MM) 25 km (SM)
Min TX power	-19,0 dBm	-18,0 dBm	-5,0 dBm	-4,0 dBm	0 dBm	-19,0 dBm -18,0 dBm
Max TX power	-14,0 dBm	-7,0 dBm	0 dBm	2.0 dBm	5.0 dBm	-14,0 dBm -7,0 dBm
Sensitivity	-30,0 dBm	-28,0 dBm	-34,0 dBm	-36,0 dBm	-37,0 dBm	-30,0 dBm -28,0 dBm
Link budget	11,0 dB	10,0 dB	29,0 dB	32,0 dB	37,0 dB	11,0 dB 10,0 dB

ORDER INFORMATION

MF101   10/100TX to 100BaseFX - 2 km. switching converter (Multi-mode SC conn.)
MF102   10/100TX to 100BaseFX - 25 km. switching converter (Single-mode SC conn.)
MF103   10/100TX to 100BaseFX - 40 km. switching converter (Single-mode SC conn.)
MF104   10/100TX to 100BaseFX - 60 km. switching converter (Single-mode SC conn.)
MF105   10/100TX to 100BaseFX - 120 km. switching converter (Single-mode SC conn.)
MF108   100FX to 100BaseFX - Multi-mode to Single-mode 25 km. switching converter (Multi-mode and Single-mode SC conn.)

RM16   Media Converter Centre 16 slots chassis 19" - 2U with redundant Power Supply