Fibre Optic Active
Media Converters – Singlemode to Multimode - Fibre

Multimode to Singlemode Media Converters are used to switch fibre type between two media converters.

We offer multimode to singlemode media converters in dual fibre to dual fibre type or SFP to SFP type for easier amendments and network modifications.

Features & Benefits

- Available in SFP to SFP type or fibre to fibre type
- Wavelength switching supports all combinations of 850nm, 1310nm & 1550nm
- Mode switching supports singlemode and multimode
- Fibre switching supports full and half duplex
- Transmission distances from 550m to 120km
- Built-in RAM for data buffer
- Compliant to IEEE 802.3*, FCC and CE standards
- Available with internal or external power supply
- Up to 1.4Gbps data rate
- Card-type and media racks available
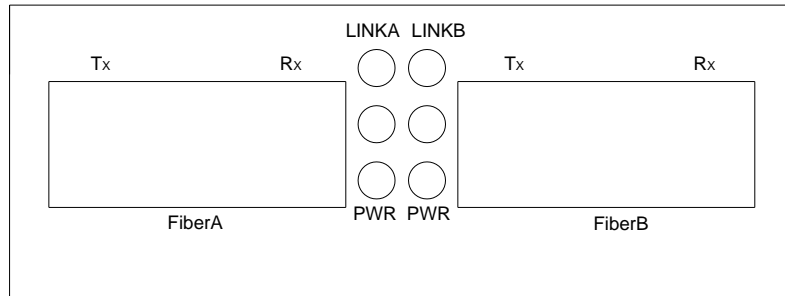- Available transmissions 10/100M, 10/100/1000M or 1000M FDX/HDX

Technical Specifications

	Fibre to Fibre
Cable	SM or MM Fibre/Twisted Pair
Transmission Type	10/100M, 10/100/1000M or 1000M FDX/HDX
Wavelength (nm)	850~1625
Bandwidth	128Mbps, 1.4Gbps
Data Buffer	2Mb
Distance	550m~120km
Warranty	≤3 years
Conformity	FCC, IEEE 802.3* , CE
Operating Temperature	0 to +70
Weight (kg)	0.2 (External Power), 0.4 (Internal Power)
Dimensions (External Power) (mm)	95(L) * 70(W) * 26(H)
Dimensions (Internal Power) (mm)	140(L)* 110(W) * 30(H)
Power Consumption	3.5W
Operating Humidity (%)	5 - 90
Power External	DC5V 2A
LED Indicator	POWER(power supply) FX Link/ACT (fibre link/action) TX Link/ACT(RJ45 link/action) 100M, SD
Error Rate	$< 10^{-9}$
Transmission Distance(km) (m)	Multi-mode Dual-fibre 2 Single-mode Dual-fibre 20/40/60/80/120 Category-5 twisted pair 100
Port	RJ-45 Port: Connecting with STP/UTP category 5 twisted pair Optical Port: SC ST FC
Conversion Means	Media conversion, store-and-forward

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Technical Drawings

LED Function Description

LED Indicator Lamp	Functions	Status	Description
PWR	Solid On	On	Power is on.
		Off	When power supply fail.
Link A	Fibre port link/action status LED	On	Fibre signals are detected.
		Off	No fibre signals.
Link B	Fibre port link/action status LED	On	Connection status display for electric link. "ON" indicates that electric link is in correct connection.
		Off	The fibre link has failed.

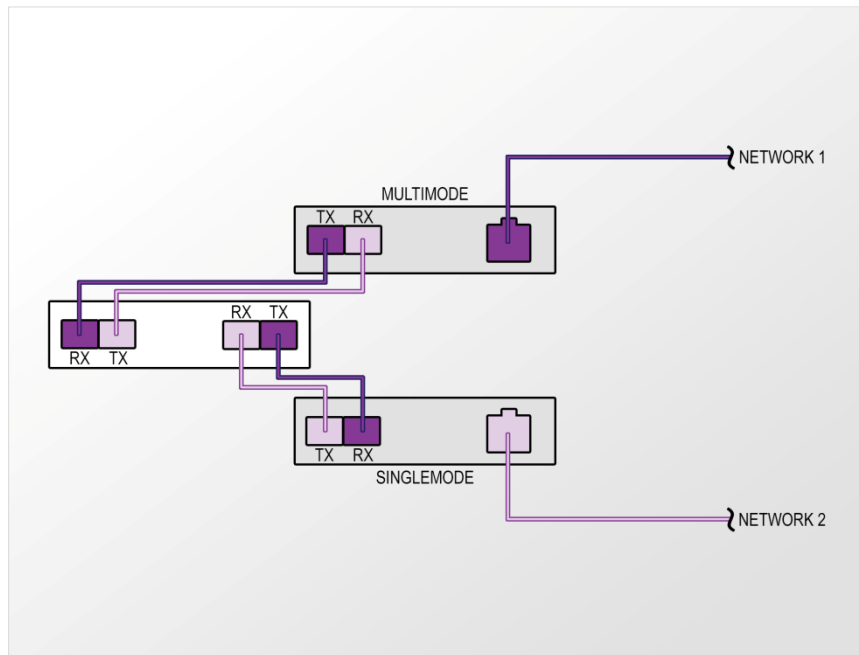## Power Supplies

External power Supply

Internal power Supply

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Network Structure

Ordering Information

Use the formula below to create the part number.

Media Converter Type		Fibre Connector Type		Distance	
10/100M Fibre to Fibre	**MC**	Fibre SC 550m	**MSC550**	20km	**20**
		Fibre ST 550m	**MST550**	40km	**40**
10/100/1000M Fibre to Fibre	**GBMC**	Fibre FC 550m	**MFC550**	60km	**60**
		Fibre LC 550m	**MLC550**	80km	**80**
1000M Fibre to Fibre	**GB1MC**			100km	**100**
				120km	**120**

GB1MC	IP	MSC550	SC	20	EU

Power Supply		Singlemode Connector Type		Plug Type	
External Power	**EP**	SC	**SSC**	UK	**UK**
Internal Power	**IP**	ST	**SST**	European	**EU**
		FC	**SFC**	US	**US**
		LC	**SLC**		

Example: **GB1MCIPMSC550SC20EU** - 1000M Fibre SC 20km Fibre to Fibre Media Converter with EU Internal Power Supply