



Networking & Telecommunications End-to End Solutions

## 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 10/10
  - Available transmissions 10/100M, 10/100/1000M or 1000M FDX/HDX

#### **Technical Specifications**

CableSM or MM Fibre/Twisted PairTransmission Type10/100M, 10/100/1000M or 1000M FDX/HDXWavelength (nm)850~1625Bandwidth128Mbps, 1.4GbpsData Buffer2MbData Buffer2MbWarranty<3 yearsConformityFCC, IEEE 802.3*, CEOperating Temperature0 to +70Weight (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 Consumption3.5WOperating Humidity (%)5 - 90Power ExternalDC5V 2APOWER ExternalPOWER(power supply) FX Link/ACT (fibre link/action) TX Link/ACT(RJ45 link/action) 100M, SDError Rate< 10-9Multi-mode Dual-fibre 2		Fibre to Fibre
Wavelength (nm)850~1625Bandwidth128Mbps, 1.4GbpsData Buffer2MbDistance550m~120kmWarranty≤3 yearsConformityFCC, IEEE 802.3*, CEOperating Temperature0 to +70Weight (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)Operating Humidity (%)5 - 90Operating Humidity (%)5 - 90Power ExternalDC5V 2APOWER (power supply) FX Link/ACT (fibre link/action) TX Link/ACT(RJ45 link/action) 100M, SDError Rate< 10.9	Cable	SM or MM Fibre/Twisted Pair
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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		
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		
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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		3.5W
LED Indicator    POWER(power supply)    FX Link/ACT (fibre link/action)      TX Link/ACT(RJ45 link/action)    100M, SD      Error Rate    < 10-9		
TX Link/ÄCT(RJ45 link/action) 100M, SD Error Rate <10-9		
Error Rate <10-9	LED Indicator	
Transmission Distance(km) Multi-mode Dual-fibre 2	Error Rate	< 10-9
	Transmission Distance(km)	
Single-mode Dual-fibre 20/40/60/80/120		
(m) Category-5 twisted pair 100		
Port RJ-45 Port: Connecting with STP/UTP category 5 twisted pair	Port	
Optical Port: SC ST FC		
Conversion Means Media conversion, store-and-forward	Conversion Means	Media conversion, store-and-forward

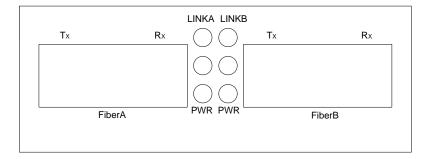




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#### **Technical Drawings**



#### **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

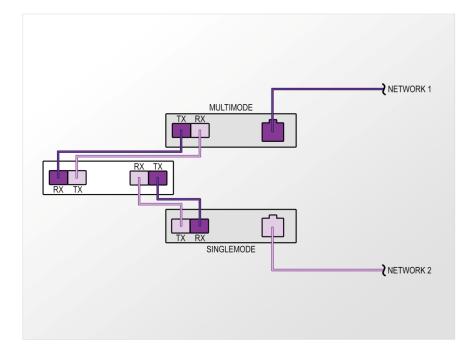




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### Media Converters – Singlemode to Multimode - Fibre

#### **Network Structure**



#### **Ordering Information**

Use the formula below to create the part number.

Media Con	verter Type	Fibre Conn	ector Type	Distance		
10/100M Fibre to	MC	Fibre SC 550m	MSC550	20km	20	
Fibre		Fibre ST 550m	MST550	40km	40	
10/100/1000M Fibre	GBMC	Fibre FC 550m	MFC550	60km	60	
to Fibre		Fibre LC 550m	MLC550	80km	80	
1000M Fibre to Fibre	GB1MC			100km	100	
				120km	120	
GB1MC	IP	MSC550	SC	20	FU	
		1000000	00	20	LU	
Power Supply				Plug Type		
Power	Supply	Singlemode C	onnector Type	Plug	Туре	
External Power		¥	onnector Type SSC	Plug UK	Type UK	
	EP	¥			UK	
External Power	EP	SC ST	SSC	UK	UK	

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