



Fibre Optic Active

Media Converters – 1 x SFP Fibre to 1 x RJ45 - 10/100M

SFP to RJ45 Media Converters serve the same function as dual fibre to RJ45 converters increasing transmission distances in structured cabling networks. SFP, unlike dual fibre, has the ability to replace SFPs without changing media converter, allowing one media converter to provide singlemode and multimode signals or any transmission distance with simple plug and play.



Features & Benefits

- Built-in 2 port switch which supports flow and bandwidth control
- SFP transceiver technology allows adaption's to made without replacing media converters
- Transmission distances from 550m to 120km
- Built-in RAM for data buffer
- Compliant to IEEE 802.3*, FCC and CE standards
- Available with a external power supply
- Up to 1.4Gbps data rate
- Card-type and media racks available

Technical Specifications

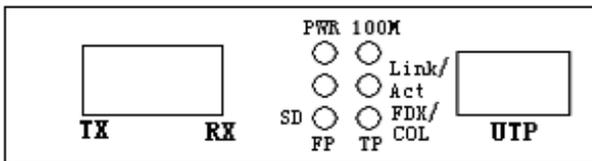
Cable	SM or MM Fibre/Twisted Pair
Transmission Type	10/100M FDX/HDX
Wavelength (nm)	850~1625
Bandwidth	128Mbps
Data Buffer	128Kb
Distance	550m~120km
Warranty	≤3 years
Conformity	FCC, IEEE 802.3*, CE
Operating Temperature	0 to +70
Weight (kg)	0.2 (External Power)
Dimensions (External Power) (mm)	95(L) * 70(W) * 26(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)	Multi-mode Dual-fibre 2 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 Optical Port: SC ST FC
Conversion means	Media conversion, store-and-forward



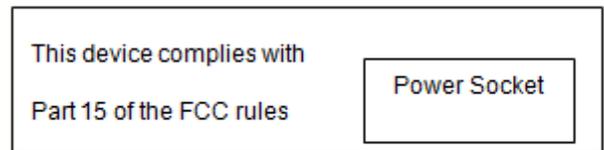
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Technical drawings



Picture1.Front View



Media Converter 1
Picture2.Back View

LED Function Description

LED indicator lamp	Status	Description
PWR	On	When power supply is normal
	Off	When power supply fail
100M	On	When TP Port Link speed is 100M
	Off	When TP Port Link speed is 10M
TX Link/Act	On	Connection status display for electric link. "ON" indicates that electric link is in correct connection.
	Blink	Active status display of electric link "Blink" indicates data transmitting
FX Link/Act	On	Connection status display for fibre link "ON" indicates that electric link is in correct connection.
	Blink	Active status display of fibre link "Blink" indicates data transmitting
FDX/COL	On	Fibre port works in the full duplex mode.
	Off	Fibre port works in the half duplex mode.
SD	On	Fibre signal is detected
	Off	Fibre signal not detected

Power Supplies



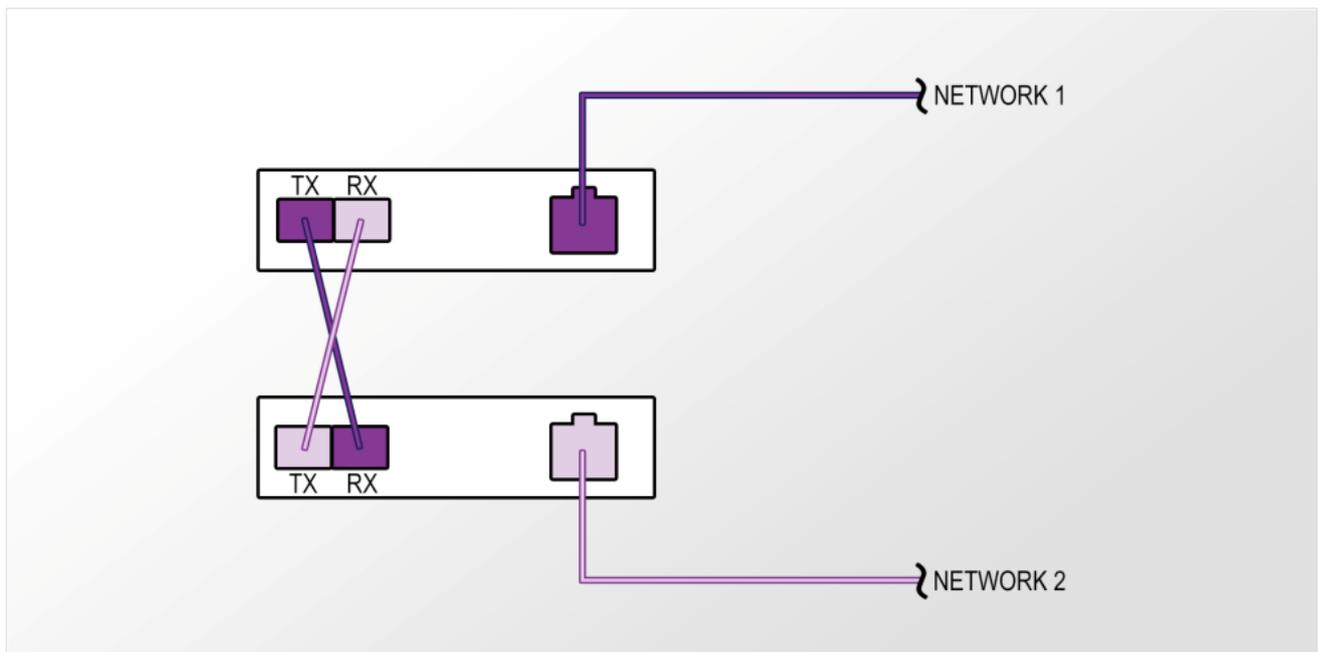
External power Supply



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Network Structure



Ordering Information

Use the formula below to create the part number.

Transmission Type		Fibre Connector Type		Distance	
10/100M	MC	Singlemode / Single SFP	SSFP	550m (Multimode Only)	550
		Multimode / Single SFP	MSFP	20km	20
				40km	40
				60km	60
				80km	80
				100km	100
				120km	120
MC	EP	MSFP	1R	550	EU
Power Supply		Copper Connector Type		Plug Type	
External Power	EP	Single RJ45	1R	UK	UK
				European	EU
				US	US

Example: **MCEPMSFP1R550EU** - 10/100M Multimode 550m Single SFP Fibre to Single RJ45 Media Converter with EU External Power Supply