



## Description

The CE-SM902 single mode dual fiber media converter converts 10BASE-T/ 100BASE-TX Ethernet data to 100BASE-FX Ethernet data and vice versa. Designed for point-to-point applications, the CE-SM902 media converter provides one 10BASE-T/100BASE-TX port and two 100BASE-FX fiber port. CE-SM902 series media converter performs the media conversion between 10/100M copper lines and 20KM fiber optic links. It extends the network transmission range from 100m(the limit of copper Cable) to 20KM on fiber.

The standalone model can be installed in 14 slots 2U rack mount chassis, and the modular model can be installed in 16 slots rack mount chassis. It is installed in 17slots 2U rack mount chassis when working in chassis with SNMP Management.

## Features:

- SC/FC/ST Connector Optional
- 10/100M Base-TX to 100 FX media converter
- Stand-Alone and Rack-Mountable Modular Design
- Full Duplex and Half Duplex working mode
- Single mode and multimode for fiber optic options
- Transmission distance up to 2Km
- Accordance with IEEE802.3 and IEEE802.3u
- 1Mb buffer
- Automatic MDI / MDIX work method without the need for cable choice
- Support Full/half duplex self-adaptive transmission mode and auto-negotiations
- Support 10/100Mbps Store and Forward mode or Cut-Through mode operation
- Supports per port basic LEDs for monitoring
- **Link Fault Pass-through troubleshooting function(optional)**
- Internal lightning proof circuit, can reduce the damage from lightning
- LED Indicators for Monitoring of Fiber Redundancy Mode Status, Optic Signal/Laser Status, 100BASE-FX Port Status Including Far End Fault Indication (FEFI), 10BASE-T/100BASE-TX Port Status, and Operating Power.
- Available with modular and standalone version
- Internal lightning proof circuit, can reduce the damage from lightning

## Applications

- apply to ready to rise to 10M extended enterprise network bandwidth 100M
- Telecommunications
- widely used for computer data transmission network to meet a variety of business needs
- Apply to the campus broadband network, broadcasting network and intelligent residential broadband fiber-to-floor fiber to the home data transfer
- With the switches and other computer network equipment can be combined to form-chain, star, ring-type network and other computer networks

## Technicals:

Standard	IEEE802.3 10Base-T Ethernet,IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control,IEEE802.1q,IEEE802.1p QoS,IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission Distance(optical)	Dual Fiber Multi Mode( 0.55-2Km)
	Dual Fiber Single Mode(20/40/60/80/100/120Km)
	Single Fiber Single Mode( 20/40/60/80/100Km)
Transmission Distance(ethernet)	CAT5( 100m)
Ethernet Port	RJ45 Connector, Connecting with twisted pair
Optical Port(MM)	SC(normal),FC/ST(Optional)
Conversion Method	Media conversion, store-and-forward/straight -through
Buffer Size	1Mbit
Flow Control	flow control(Duplex)
	back pressure(Half Duplex)
Work Life	> 100,000 Hours
BER	< 1/1000000000
LED Indicator Lamps	POWER, FX LINK/ACT (fiber link)
	TP1/2/3/4 LINK/ACT (twisted pair link)
	FDX (FX-full duplex), FX 100 (FX 100M data rate)
	TP1/2/3/4 100 (TP 100M data rate)
Power Supply	AC90V-260V( internal power )
	DC-48V,DC24V,DC12V,DC5V (external power)
Power Dissipation	2.5W,8W
Operating Temperature	-30~ 70
Storage Temperature	-40~ 80
Humidity	5%~90%
Storage Humidity	5%~90% non-condescending
Dimension	26mm (H)* 70mm (W)* 95mm (D) (external power)
	30mm (H)* 110mm (W)* 140mm (D) (internal power)