

# BX-SFC (single mode fiber converter) instructions

## Product Description

Fiber converter can do the transmission media converting on network from copper wire to fiber and fiber to copper wire. On network, the transmission distance is only 100M, but optical signal can transmit about 100 kilometers. BX-V series, the longest communication distance is 150M, and BX-SFC optical transceiver can extend to 15-20km. Products status: Put into the market in March,2016.

## Product Characteristics

BX-SFC adopts Industrial-grade photoelectric integration module, offer the better light characteristic and electric characteristic as to promise the liability of data transmitting, MTBF>10<sup>5</sup> hours.  
High frequency switching chip inside, data speed is about 1000Mbps.  
Full-duplex and half-duplex self-adaption, straight wire and cross wire self-adaption.  
Working speed 1000Mbps, self-adaption 10/100/1000Base-Fx optical transceiver standard, can get communication with other network products.  
Support IEEE802.1Q and ISL.  
Support fault detection function of optional optical path, flow control, fault-tolerant detection, support SPANNING TREE fault-tolerant network.  
Support hot plug.  
Best production, stable quality.  
Working temperature: -40°C~80°C.  
Power supply: DC 5V2A.

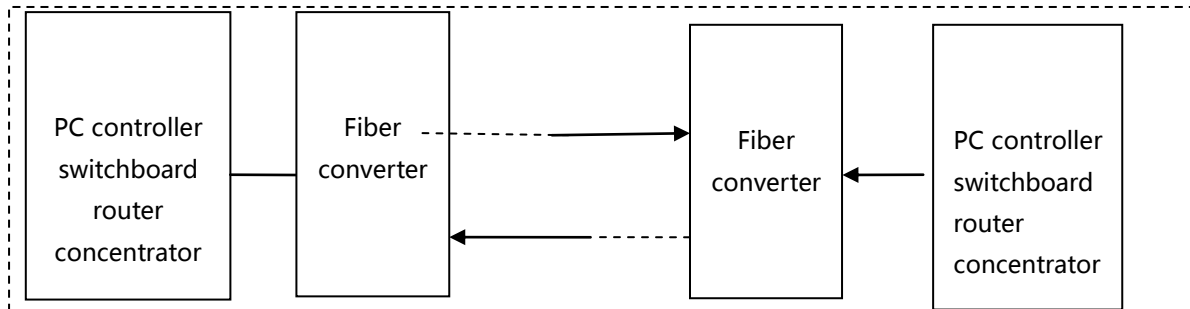
## Compatibility

IEEE 802.3z Gigabit Ethernet
IEEE 802.1d Spanning Tree
IEEE 802.1p Qos
IEEE 802.1Q and ISL

## Application Environment

BX controller	Support all BX LAN port controller and other LAN port controller from popular controller suppliers
Metropolitan area optical fiber broadband network	Support telecom runner, cable Television runner, etc.
Private broadband	Apply to financial, government, petroleum, railway, electricity, traffic, education, etc.
Multimedia transfer	Apply to graphic, audio, data integrated transmission, remote teaching, video conferencing, visual telephone, etc.
Real time monitor	Real time monitor signal, graphic and transfer data at the same time.
Anti severe environment	Apply to strong electromagnetic interference, and long distance severe environment.

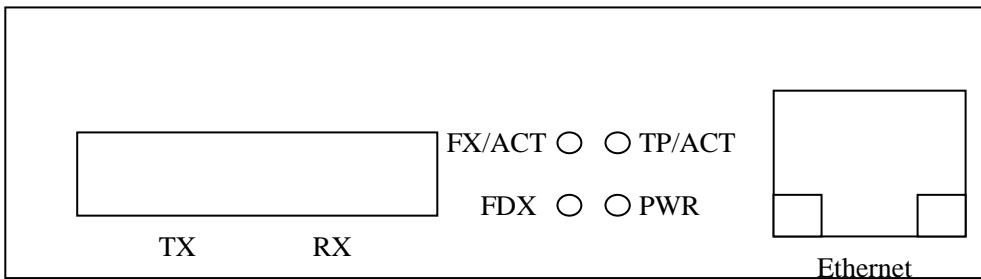
**Equipment installation**



**Status light**

BX-SFC has 4 LED indicator lights and 2 LAN port indicator lights, they indicate the working status of transceiver. According to the LED indicator lights, we can estimate the problems of transceiver and working status.

BX-SFC indicator light:



The judgment and monitoring of LED indicator:

LED indicator lights	status	Definition
Ethernet	Green light on	The present LAN port speed is 100M
	Yellow light on	The present LAN port speed is giga
FX/ACT	light on	Optical port is OK
	flick	There's data transferring in optical port
TP/ACT	light on	LAN port is connecting
	flick	There's data transferring in optical port
FDX	light on	The present port is on full-duplex status
	black	The present port is on half-duplex status
PWR	light on	Power supply is OK

**Accessories of product**

BX-SFC \*1

5V2A \*1

Certificate of quality \*1