

## BS-FS

### 10/100M Fiber Optical Media Converter Series

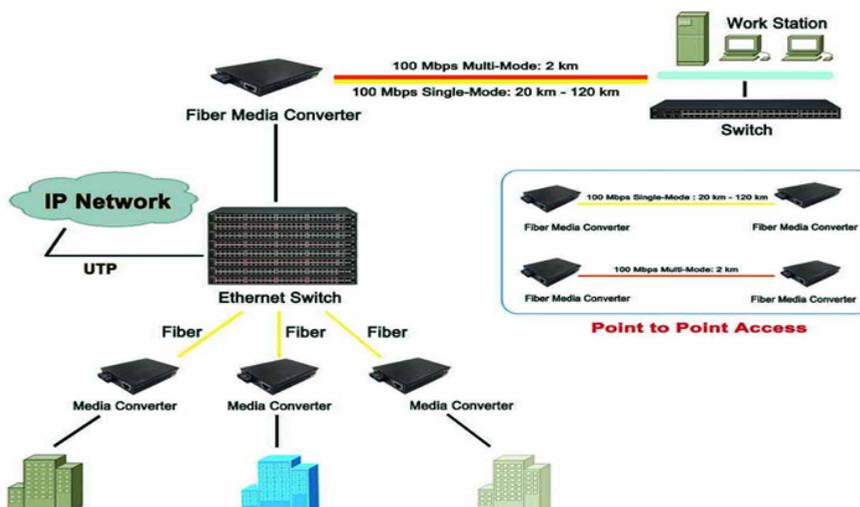
Ethernet media converter can inter convert electrical signals of 10Base-T and 100Base-TX twisted pairs with optical signals of 100Base-FX. It extends the network transmission distance from 100m via copper cables to 120km via fiber optical cable. It enables the data to transmit in two different mediums of electrical and optical networks either by the technology of data link L2 store-and-forward, or by the one of PHY L1 cut-through. It supports transmission in multi-mode dual fiber, single-mode dual fiber, single-mode single fiber.



## Features

- 10/100Mbps auto-sensed, facilitating network upgrade
- Built-in efficient switching core to implement flow control and reduce broadcast packets
- full-duplex and half-duplex auto-sensed
- Supporting automatic cross connection of twisted pair interfaces, facilitating system commissioning and installation
- Supporting Link Failure Alert (LFA) with optional dip-switch(unique)
- Supporting 10/100Mbps store-and-forward and 100Mbps cut-through transmission with optional dip-switch(unique)
- Supporting the transmission of extra-long packets up to 1600 bytes
- Supporting the transmission of extra-long VLAN packets
- Supporting Quality of Service (QoS) , ensuring the transmission of VoIP packets
- Supporting STP to form a redundant network
- Extremely low power consumption, low heat, stable performance and long lifetime

## Application



Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	Multimode: 850/1310nm; Single-mode: 1310/1550nm
Transmission distance	Multi-mode: 550m~2 km; single-mode: 20~120km; Category-5 twisted pairs: 100m
Port	One RJ45 port: For connecting STP/UTP category-5 twisted pairs One or two optical ports: MM: SC/ST/FC (fiber size: 50,62.5/125µm) SM: SC/ST/FC (fiber size: 9/125µm)
Conversion means	Media conversion, store-and-forward/cut-through
MAC address table	1K
Buffer space	1Mbit
Flow control	Full duplex: flow control; Half duplex: back pressure
Delay	Store-and-forward: 9.6µs; cut-through: 0.9µs
BER	<10 <sup>-9</sup>
MTBF	100,000 hours
LED indicator	PWR (power supply); FX LINK/ACT (optical link/action) FDX (FX full duplex), TP LINK/ACT (twisted pairs link/action) TP 100 (100M transmission rate of twisted pairs), FX 100 (100M transmission rate of optical fiber)
Power supply	DC5V 1A (external), AC220 0.5A/DC-48 (internal)
Power consumption	<2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Maintaining temperature	-40~70°C
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	26mm (H) * 70mm (W) * 94 mm (D) (external power supply)
	30mm (H) * 110mm (W) * 140 mm (D) ( internal power supply)

**BN-FS-SC-MM**  
10/100BaseTX-100FX  
Media/Rate Converter  
MM, SC, 2km

10/100 Mbps UTP Ethernet bağlantınızın Multimode fiber kablo aracılığıyla 2 km uzağa taşınmasını sağlar.



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**BN-FS-SC-SM20**  
10/100BaseTX-100FX  
Media/Rate Converter  
SM, SC, 20km

10/100 Mbps UTP Ethernet bağlantınızın Singlemode fiber kablo (9/125µm) aracılığıyla 20 km uzağa taşınmasını sağlar.



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**BN-FS-ST-MM**  
Beek 10/100BaseTX-100FX Media/Rate Converter  
MM, ST, 2km

• UTP / fiber (ST konektör, Multimode) media converter  
• 10/100 Mbps UTP Ethernet bağlantınızın Multimode fiber kablo aracılığıyla 2 km uzağa taşınmasını sağlar.



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