



10/100M, Single Fiber, SC, External Power Supply

Fiber Media Converter

### Key Features

- ✚ Wavelength Division Multiplexing (WDM), Tx and Rx on 1 fiber
- ✚ 100BASE-FX FIBER to 10/100BASE-T COPPER Ethernet
- ✚ conversion 1600byte super data packet transmission
- ✚ Full duplex-flow control, Half duplex-back
- ✚ pressure Link fault pass through (LFPT)
- ✚ Full- positioned LEDs to indicate power and network status



### Introduction

The EM-100-BS series, the fast Ethernet media converters, featuring 1-fiber transmission with Wavelength Division Multiplexing (WDM) technology, utilize fiber optics to extend the physical distance range of typical Ethernet link to 20km-100km. It's often applied in school, cyber bars, offices, and telecommunication networks.

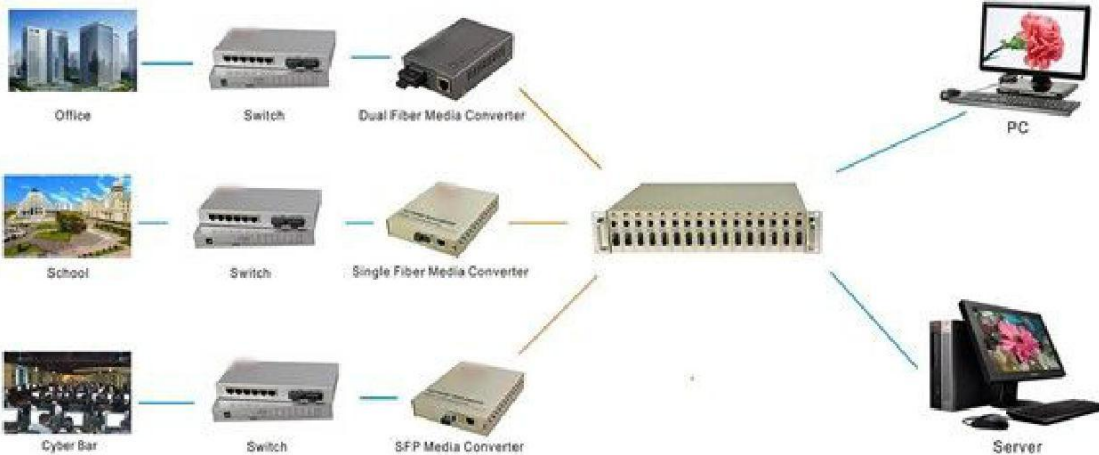
### Specification

Standard	IEEE802.3 (10BASE-T), IEEE802.3u 100BASE-TX/FX (Fast-Ethernet), IEEE802.3x (Flow Control), IEEE802.1q, IEEE802.1p QoS, IEEE802.1d Spanning Tree
10/100BASE-T	STP or UTP Category 5/5e/6 cable (Max. 100m)
100BASE-FX	9/125um single mode fiber cable (20/40/60/80/100km)
Conversion Mode / Delay Time	Store-and-Forward < 10us, straight-through<0.9us
Flow control	Full duplex-flow control, Half duplex-back pressure
RJ-45 Port	Auto-MDI/MDIX
Fiber Connector	SC standard, ST/FC optional
Wavelength	1310/1550nm
Dimensions	70mm(W) x 93mm(D) x 25mm(H)
Weight	Net weight : 0.16kg; Gross weight : 0.42kg
Input Voltage	DC 5V1A with External power adapter
Power Consumption	<2.5W
MTBF	50,000 hours
BER	<1/1000000000
MAC Address Table	1K
Buffer Size	1M
Operating Temperature	0°C~50°C
Storage Temperature	-40°C~70°C
Storage Humidity	5%~90% non-condensing

# Fiber Media Converter EM-100-BS20

## Application

- ✚ Telecommunication Networks
- ✚ Schools, Offices, Cyber bars



## Ordering Details

EM-100-BS20	10/100M, Standalone, Single fiber, Single mode, SC, 20km, external power supply
EM-100-BS40	10/100M, Standalone, Single fiber, Single mode, SC, 40km, external power supply
EM-100-BS60	10/100M, Standalone, Single fiber, Single mode, SC, 60km, external power supply
EM-100-BS80	10/100M, Standalone, Single fiber, Single mode, SC, 80km, external power supply
EM-100-BS100	10/100M, Standalone, Single fiber, Single mode, SC, 100km, external power supply

\*Above listed are most frequently ordered items. Please contact us for other configurations.

### Item Number Code Explain:

XX-XXXX-XX XX

**Distance:**  
2km, 20km, 40km, 80km, 100km

**Fiber Type:**  
M-Multi mode, BS- Bidi SM Single fiber, S- SM Dual fiber

**Transmission rate:**  
100-10/100M, 1000-1000M, 1100-10/100/1000M

**Product Type:**  
EM-Media converter