D-TECH Fiber Media converter SM 10/100/1000Mbps

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Variants

MC 1*RJ to SC SX 20km MC 1*RJ SC DX 20km MC 4*RJ SC SX 20km MC 1*RJ SC SX 40km

Details

The **MC Series Single Fiber 10/100/1000Mbps Media Converter** is a high-performance fiber optic converter designed for stable and efficient Ethernet transmission over long distances. It converts **10/100/1000Base-T RJ45 Ethernet** to **1000Base-X single fiber optical transmission**, making it ideal for ISP networks, enterprise LAN, CCTV fiber links, telecom access networks, and industrial applications.

With store-and-forward architecture, MAC address auto-learning, broadcast filtering, low power consumption, and fanless natural heat dissipation, this media converter provides reliable data forwarding with minimal maintenance.

Ethernet Port
10/100/1000M

Fiber Port

1000Base-X

Distance

Up to 20KM+

Power

DC 5V

Key Features

? Supports 10/100/1000Mbps RJ45 Ethernet

? 1 × 1000Base-X Single Fiber Optical Port

? Long Distance Fiber Transmission Options

? Store-and-Forward Architecture

? MAC Address Auto-Learning & Auto-Update

? Broadcast Filtering for Stable Network Performance

? Fanless Low Power Consumption Design

? Compact Desktop Installation

Technical Specifications

Parameter	Details
Product Type	Single Fiber Gigabit Ethernet Media Converter
Ports	1 × 1000Base-X Fiber, 1 × 10/100/1000Base-T RJ45
Power Interface	DC Port
LED Indicators	PWR, Link / ACT
Copper Distance	0 – 100 m using CAT5e / CAT6 Cable
Fiber Distance	3 km / 20 km / 40 km / 60 km / 80 km / 100 km / 120 km
Input Voltage	DC 5V
Power Consumption	4W
Operating Temperature	-20°C to +70°C
Storage Temperature	-20°C to +70°C
Humidity	5% – 95% RH, Non-condensing
Cooling Method	Fanless, Natural Heat Dissipation
MTBF	100,000 Hours
Dimensions	93 × 71 × 27 mm
Installation	Desktop
Weight	0.17 kg
Certification	CE / FCC / RoHS

Parameter	Details
Accessories	Device, Manual, Power Adapter (EU / US / UK / AU Optional)

Applications

- ISP Fiber Network
- Enterprise LAN Extension
- CCTV Fiber Transmission
- Telecom Access Network
- Industrial Ethernet Network
- Fiber to Ethernet Conversion
- Campus Network Backbone
- Long Distance Network Link

Note: For single fiber BIDI media converters, the two sides must be used in matched wavelength pairs for proper communication.

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