

# D-TECH Fiber Media converter Single-Mode 10/100/1000Mbps

---

D-TECH Fiber Media converter Single-Mode 10/100/1000Mbps

## Variants

1\*RJ to SC Simplex SM 20km DC 1\*RJ to SC Simplex 40km DC 1\*RJ to SC Duplex 20km DC 4\*RJ to SC Simplex 20km DC

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

Parameter	Details
<b>Accessories</b>	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.