

# D-TECH Fiber Media converter SFP Single-Mode

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## Variants

10G 1 SFP -1RJ 1G 1 SFP -1RJ

## Details

### 10G Media Converter (RJ45 to SFP+)

The 10G Media Converter is designed to convert Ethernet electrical signals to optical signals, enabling high-speed data transmission over long distances. It supports conversion between 10GBase-T copper signals and 10GBase optical fiber signals (SR/LR/ER/ZR).

By using different SFP+ modules, users can extend network connectivity from short-distance copper links to long-distance fiber transmission up to 100 km. It ensures stable, secure, and low-latency performance, making it ideal for data centers, enterprise networks, and ISP infrastructure.

## Key Features

High-performance Marvell chipset for stable and non-blocking transmission

Supports 10GBase-T to 10GBase-SR / LR / ER / ZR conversion

3R function: Signal amplification, clock recovery, and regeneration

Low latency transmission (< 20?s)

Supports multiple wavelengths: 850 nm, 1310 nm, 1550 nm, CWDM, DWDM

Jumbo Frame support for high-throughput applications

Reliable isolation protection and data security

Compact design for easy installation and maintenance

## Technical Specifications

| Category | Specification |
|----------|---------------|
|----------|---------------|

|                       |   |
|-----------------------|---|
| Ethernet Port         | RJ45, 10Gbps, Distance up to 100m (CAT5e or higher)     |
| Fiber Port            | 1 x SFP+ Slot, 10Gbps                                   |
| Fiber Type            | Single Mode (9/125 ?m), Multimode (50/125, 62.5/125 ?m) |
| Transmission Distance | 550 m to 100 km (depending on SFP+ module)              |
| Wavelength            | 850 nm / 1310 nm / 1550 nm / CWDM / DWDM                |
| Processing Type       | Store and Forward                                       |
| Transmission Mode     | Full/Half Duplex Auto-Adaptive                          |
| MAC Table             | 2K  |
| Buffer                | 1 Mbit  |
| Latency               | < 20 ?s   |
| Power Input           | AC 100–240V, 50/60Hz                                    |
| Working Voltage       | 5V / 4A or 12V  |
| Power Consumption     | 0.75W – 3W  |
| Operating Temperature | -10°C to +55°C  |
| Storage Temperature   | -40°C to +70°C  |
| Humidity              | 5% – 90% (Non-condensing)                               |
| Dimensions            | 117 x 85 x 21 mm  |
| Weight                | 0.1 kg  |
| Certification         | CCC, CE, FCC, RoHS                                      |
| Warranty              | 1 Year  |