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 into optical fiber signals for high-speed and long-distance transmission. It supports conversion between **10GBase-T copper Ethernet** and **10GBase optical fiber** standards including SR, LR, ER, and ZR.

By using different **SFP+ optical transceivers**, users can extend network connectivity from short-distance copper links to fiber transmission up to **100 km**. The converter provides stable, secure, and ultra-low latency transmission, making it suitable for data centers, enterprise networks, ISP backbone infrastructure, and high-speed fiber communication systems.

Key Features

- High-performance Marvell chipset for stable and non-blocking transmission
- Supports 10GBase-T to 10GBase-SR / LR / ER / ZR conversion
- 3R function support: Signal amplification, clock recovery, and regeneration
- Ultra-low latency transmission below 20?s
- Supports multiple wavelengths including 850nm, 1310nm, 1550nm, CWDM, and DWDM
- Jumbo Frame support for high-throughput applications
- Reliable isolation protection and secure data transmission

- Compact and lightweight industrial design
- Easy installation and maintenance
- Compatible with Single Mode and Multimode fiber

Technical Specifications

Category	Specification
Ethernet Port	RJ45, 10Gbps, Distance up to 100m using CAT5e or higher
Fiber Port	1 × SFP+ Slot, 10Gbps
Fiber Type	Single Mode (9/125 ?m), Multimode (50/125 ?m, 62.5/125 ?m)
Transmission Distance	550m to 100km depending on SFP+ optical module
Supported Wavelengths	850nm / 1310nm / 1550nm / CWDM / DWDM
Processing Type	Store and Forward
Transmission Mode	Full / Half Duplex Auto-Adaptive
MAC Table	2K
Buffer Size	1 Mbit
Latency	20 ?s
Power Input	AC 100–240V, 50/60Hz
Working Voltage	5V / 4A or 12V
Power Consumption	0.75W – 3W

Category	Specification
Operating Temperature	-10°C to +55°C
Storage Temperature	-40°C to +70°C
Humidity	5% – 90% Non-condensing
Dimensions	117 × 85 × 21 mm
Weight	0.1 kg
Certification	CCC, CE, FCC, RoHS
Warranty	1 Year

Applications

- 10G Data Center Connectivity
- Enterprise Fiber Networks
- ISP Backbone Infrastructure
- Long-Distance Fiber Communication
- Telecom Transmission Systems
- Cloud Computing Networks
- High-Speed Storage Networks
- Industrial Ethernet Applications

Note: Transmission distance depends on the selected SFP+ optical transceiver module and optical fiber quality.

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