

# 10/100/1000M Series Media Converter

10/100/1000Base-Tx to 1000Base-Fx

RoHS Compliant



## >>Description

The 10/100/1000M series comply with IEEE 802.3/ab Gigabit Ethernet standard. It supports two types of media for network connection such as 10/100/1000Base-T to 1000Base SX/LX and connects these two types of segments to operate smoothly. 10/100/1000M series can be used in 16 slot chassis as plug-in module. 10/100/1000M series Fiber Media Converter transforms 1000Base-T (Copper Gigabit) media to 1000Base-SX/LX (Fiber Gigabit) media and vice versa. The 1000Base-T port supports full-duplex Gigabit connection at wire speed with RJ45 connector. The fiber Gigabit connection supports shortwave (SX) or long wave (LX) laser optic with multi-mode or single-mode SC type connector.

This converter will give your Copper Gigabit connection the ability to interface with fiber connection over a distance up to 80 km! 10/100/1000 means, that media converter that converts the electrical signal of a 10/100/1000 Ethernet signal from copper to fiber. This solution will offer a low-cost integration option for network managers who want to migrate from 10/100 networks to Gigabit Ethernet. Gigabit only switches can now be connected to 10/100 networks without the need to upgrade the 10/100 side, allowing network managers to add new equipment gradually.

## >>Main Features

- Complies with IEEE 802.3, IEEE 802.3u, IEEE802.3z, IEEE802.3ab, IEEE 802.3x auto-negotiation
- Works at 10Mbps or 100Mbps, full or half-duplex mode, or 1000Mbps full-duplex mode
- Extends distances ranging from 550m (multi-mode fiber) to 120km (single-mode fiber)
- Supports auto MDI/MDIX function
- Status LED for easy monitoring of device status
- Supports jumbo frame size 2K bytes
- External power supply
- Wall-Mountable, pluggable in universal chassis, or desktop
- FCC Class A & CE approved



## >> Specifications

### Interface

- 1 x Ethernet port (RJ45) 10/100/1000Base-Tx
- 1 x Optical port (1x9) 1000Base-Fx

### Optical Port

- Available for 1310nm and 1550nm Single mode, and 850nm Multi mode;
- Transfer Distance: up to 120km;
- Connectors: SC/PC, ST/PC, FC/PC optional
- Fiber core: 8.3um, 8.7um, 9um and 10um on single mode fiber, 50, 62.5 and 100um on multi-mode fiber

### Ethernet Port

- Standard: IEEE802.3, IEEE802.3u, IEEE 802.3ab, IEEE802.3x
- Available speed: force 10Mbps, force 100Mbps, force 1000Mbps and auto-detective 10/100/1000Mbps Full-Duplex and Half-Duplex auto-negotiation
- Connectors: RJ-45 Connector; MDI/MDI-X connection auto-sensing

### LED Indicators

- Power, FDX, Status, Speed, FX Link/Act, TX Link/Act

### Power Requirement

- Input: 5VDC 2A

### Physical Characteristics

- Housing: Metal enclosure
- Dimensions: 105 x 82 x 26mm (D x W x H)
- Weight: 0.32kg

### Environmental Limits

- Operating Temperature: 0°C to 50°C
- Storage Temperature: -20°C to 70°C
- Operating Humidity: 10% to 90% RH
- Storage Humidity: 5% to 90% RH

### Agency Approvals

- FCC Part 15 of Class A & CE approved

### Warranty

- 1 year

## >> Ordering Information

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### **Double Fiber Media Converter**

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10/100/1000Base-Tx to 1000Base-Fx, Multi mode, 550m, SC/ST/FC

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10/100/1000Base-Tx to 1000Base-Fx, Single mode, 20Km, SC/ST/FC

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10/100/1000Base-Tx to 1000Base-Fx, Single mode, 40Km, SC/ST/FC

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10/100/1000Base-Tx to 1000Base-Fx, Single mode, 60Km, SC

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10/100/1000Base-Tx to 1000Base-Fx, Single mode, 80Km, SC

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10/100/1000Base-Tx to 1000Base-Fx, Single mode, 100Km, SC

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10/100/1000Base-Tx to 1000Base-Fx, Single mode, 120Km, SC

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### **WDM Fiber Media Converter**

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10/100/1000Base-Tx to 1000Base-Fx, Bi-Directional, 20Km, SC/ST/FC

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10/100/1000Base-Tx to 1000Base-Fx, Bi-Directional, 40Km, SC/ST/FC

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10/100/1000Base-Tx to 1000Base-Fx, Bi-Directional, 60Km, SC

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10/100/1000Base-Tx to 1000Base-Fx, Bi-Directional, 80Km, SC

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