Gigabit Media Converter Series

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

Key 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 fibre) to 120km(single-mode fibre)
- ✓ Supports auto MDI/MDIX function
- ✓ Status LED for easy monitoring of device status
- ✓ Supports jumbo frame size 9K bytes
- ✓ Supports independent LFP function
- ✓ External power supply with RSA 3-pin plug
- ✓ FCC Class A & CE approved

The Optech media converter series comply with IEEE 802.3/ab Gigabit Ethernet standard. It supports two types of media for network connection, being 10/100/1000 Base-T to 1000 Base SX/LX and connects these two types of segments to operate smoothly. It can be used in 16 slot chassis as plug in module. The Fibre Media Converter transforms 1000Base-T (Copper Gigabit) media to 1000Base-SX/LX (Fibre Gigabit) media and vice versa.

The 1000Base-T port supports full-duplex Gigabit connection at wire speed with RJ45 connector. The fibre 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 fibre connection over a distance of up to 80 km.

With 10/100/1000, the media converter converts the electrical signal of a 10/100/1000 Ethernet signal from copper to fibre. This solution offers 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.

Technical Details:

Note: Specifications subject to change without notice

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
- Fibre core: 8.3um, 8.7um, 9um and10um on single mode fibre,
- 50, 62.5 and 100um on multi-mode fibre

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

DIP Switch Function
- TP port mode: Normal or Cut-Through
- LFP enabled (default) or disabled

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

Power Requirement
- Input: 5VDC 1A
- RSA 3-pin AC-DC PSU included

Physical Characteristics
- Housing: Metal enclosure
- Dimensions: 94 x 70 x 26mm (D x W x H)
- Weight: 0.28kg

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
- RoHS compliant

Warranty
- 3 years