

Ethernet Media Converter 10/100 Mbps



Media Converters provide an intelligent solution for fibre optic connectivity where simplicity, low cost, and minimum footprint are the primary considerations. The converters are designed to handle both legacy 10BaseT and 100BaseTX Fast Ethernet devices on their twisted pair port while maintaining 100BaseFX Fast Ethernet transmission on the fiber optic port. Plug-and-play simplicity makes connection easy.

Each Media Converter provides a 10/100BaseT/TX auto-negotiating RJ-45 twisted-pair connector port with Auto-MDIX capability for more convenient connection. Built-in 10/100 switch enables the fiber cable connection to operate at 100 Mbps connected to either a 10BaseT or a 100BaseTX network, while remaining completely 100BaseFX standard-compliant. Fibre connection can also operate in full duplex mode whether the RJ-45 port is connected to a full duplex switch or a half duplex hub.

Features

- ▶ Auto-Cross over for MDI/MDIX in TP port
- ▶ Auto-Negotiation in TP port
- ▶ Supports link fault pass through (LFP) function
- ▶ LED display for link/activity, full/half, 10/100M
- ▶ Converter mode with auto-change-forward (Switch) function

Applications

- ▶ LAN
- ▶ FTTx
- ▶ Telecommunication networks

Technical Specification

Complies with	IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX standards
Connector	UTP RJ-45 connector, optical SC, FC,ST connector
Transmission Type	10/100M FDX/HDX
Data Buffer	128Kb RAM
Wavelength(typical)	Multi-mode: 1310nm (≤2Km) Single-mode: 1310nm up to 60Km 1550nm up to 120Km
Operation mode	Full duplex mode or half duplex mode
Temperature	0 - 50°C (Operating); -45 - 80°C (Storage)
Humidity	5%-80% non-condensing (Operating); 10%-90% (Storage)
Power Supply	External : 1A,+5VDC ; Internal : 110-260VAC
Dimensions	External power version 95mm x70mm x 26mm (LxWxH) Internal power version 140mm x110mm x 30mm (LxWxH)
Power Consumption	2.5W
Compliance	RoHS & REACH FCC Part 15 Class B CE EN55022: 1998+A1; 2000+A2; 2003 EN61000-3-2: 2000+A2; 2005 EN61000-3-3: 1995+A1; 2001 EN55024: 1998+A1; 2001+A2; 2003
MTBF	65,000 h (25°C)

TELECOMMUNICATION PRODUCTS

Gigabit Media Converter 10/100/1000 Mbps



The 10/100/1000 Media Converter provides an intelligent solution for long distance connections between legacy 10BaseT and 100BaseTX networks and the newer 1000Base Gigabit Ethernet networks. The built-in 10/100/1000 converter enables the fibre cable connection to operate at 1000 Mbps connected to either a 10BaseT, 100BaseTX, or a 1000BaseT network, while remaining completely 1000BaseSX standard-compliant for the fibre optic connection. The fibre connection can also operate in full duplex mode whether the RJ-45 port is connected to a full duplex switch or a half duplex hub.

Each Media Converter provides a 10/100/1000BaseT/TX auto-negotiating RJ-45 twisted-pair connector port featuring store-and-forward switching architecture. The Built-in switch does the network segmentation to provide the maximum fibre distance. Auto-MDIX capability on the twisted-pair port allows convenient connection.

Features

- ▶ Automatic identification of MDI/MDI-X cross line
- ▶ 10/100/1000Mbps port with full/half duplex auto-negotiation
- ▶ Back pressure flow control for full duplex
- ▶ Converter mode with auto-change-forward (Switch) function

Applications

- ▶ LAN
- ▶ FTTx
- ▶ Telecommunication networks

Technical Specification

Complies with	IEEE802.3 10 Base-T standard IEEE 802.3u 100Base-TX/FX standard IEEE 802.3ab 1000BaseT IEEE 802.3z 1000BaseSX/LX
Connector	UTP RJ-45 connector, optical SC, FC,ST connector
Data Buffer	2 Megabyte
Wavelength(typical)	Multi-mode: 850nm (≤550m) ; 1310nm (≤2Km) Single-mode: 1310nm up to 20Km ; 1550nm up to 60Km
Operation mode	Full duplex mode or half duplex mode
Temperature	0 - 50°C (Operating); -45 - 80°C (Storage)
Humidity	5%-80% non-condensing (Operating); 10%-90% (Storage)
Power Supply	External : 1A,+5VDC ; Internal : 110-260VAC
Dimensions	External power version 95mm x70mm x 26mm (LxWxH) Internal power version 140mm x110mm x 30mm (LxWxH)
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