

Ethernet Fibre 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 fibre optic port. Plug-and-play simplicity makes connection easy.



Each Media Converter provides a 10/100BaseT/TX auto-negotiating RJ45 twisted-pair connector port with Auto-MDIX capability for more convenient connection. Built-in 10/100 switch enables the fibre able 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 RJ45 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

Specification

Complies with:	IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX standards
Connector:	UTP RJ45 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)

Ordering Information

Type	Speed		Wavelength		Connector		Distance		Power Adaptor		Power Supply	
MCF	01	10/100M	M	Multi-Mode	SC	SC connector	2	2km	EU	Euro Type	E	External
			S	Single-Mode	ST	ST connector	20	20km	US	US Type	I	Internal
					FC	FC connector	40	40km	UK	UK Type		
							60	60km	AU	AU Type		
							80	80km				
							100	100km				
							120	120km				

Example Part Number

MCF	01	M	SC	2	EU	E
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This part number generator has created an: 10/100Base Un-managed media converter 2km SC, U.K. External power supply