

## 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 RJ45 port is connected to a full duplex switch or a half duplex hub.



Each Media Converter provides a 10/100/1000BaseT/TX auto-negotiating RJ45 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

### 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 RJ45 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)
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	02 10/100/1000M	M Multi-Mode S Single-Mode	SC SC connector ST ST connector FC FC connector	2 2km 20 20km 40 40km 60 60km 80 80km 100 100km 120 120km	EU Euro Type US US Type UK UK Type AU AU Type	E External I Internal

### Example Part Number

MCF	02	SC	SC	2	10	EU	E
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This part number generator has created an: Single Mode Gigabit RJ45 - SC UK Power 1Gbps Media Converter 20km, External