

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 fiber 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 fiber optic connection. The fiber 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 fiber distance. Auto-MDIX capability on the twisted-pair port allows convenient connection.

FEATURES/BENEFITS

- 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

SPECIFICATIONS

DESCRIPTION

Complies with:	IEEE802.3 10 Base-T standard IEEE 802.3u 100Base-TX/FX standard IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-SX/LX
Connector:	STP RJ-45 connector, optical SC, FC, ST connector
Data Buffer:	2 Megabyte
Wavelength (typical):	Multimode: 850nm ($\leq 550m$), 1300nm ($\leq 2Km$) Single mode: 1310nm up to 20Km, 1550nm up to 80Km
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 x 70mm x 26mm (LxWxH) Internal power version 140mm x 110mm 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 Multimode	SC SC connector	1	550 Metre 850 nm MM	EU Euro Type	E External
			LC LC connector	2	2km 1300nm MM	US US Type	I Internal
		S Single mode	FC FC connector	20	20km SM	UK UK Type	
			ST ST connector	40	40km SM	AU AU Type	
				60	60km SM		
				80	80km SM		
				100	100km SM		
				120	120km SM		

Example Part Number

MCF	02	M	SC	2	EU	E
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This part number generator has created an: Multimode Gigabit RJ45 - SC Euro Power 1Gbs Media Converter 2km with an external power supply



SCAN QR FOR PRODUCT PAGE

FURTHER INFORMATION

- For additional information please contact your sales representative
- To view the product 360 visit the product page (Scan the QR code or visit the link below)
- Downloaded from <https://www.aflhyperscale.com/product/gigabit-media-converter>
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