

Gigabit Media Converter



PRODUCT INFORMATION

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 10/100/100 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 half duplex hub.

FEATURES & BENEFITS

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

APPLICATION

- LAN
- FTTx
- Telecommunication networks

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SPECIFICATIONS

Complies With	IEEE802.3 10BASE-T Standard IEEE802.3u 100BASE-TX/FX Fast IEEE802.3ab 1000BaseT IEEE802.3z 1000BaseSX/LX	
Connector	UTP RJ-45 connector, optical SC, ST connector	
Data Buffer	2 Megabyte	
Wavelength (typical)	Multi-mode:	Single-mode:
	850nm ($\leq 550m$) 1300nm ($\leq 2km$)	1310nm up to 60km 1550nm up to 120km
Temperature	0° to 50°C (Operating) -45° to 80°C (Storage)	
Humidity	5%-80% non-condensing (Operating) 10%-90% (Storage)	
Power Supply	External 1A, +5VDC	
Dimensions	External power version 95L x 70W x 26Hmm	
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: 1195+A1: 2001 EN55024: 1998+A1: 2001+A2: 2003	

ORDERING INFORMATION

Part Number	Description
FC-1000MSC	10/100/1000 Base-T/TX to 1000Base-SX/LX Multimode SC Fibre Converter (1300nm 2km)
FC-1000MST	10/100/1000 Base-T/TX to 1000Base-SX/LX Multimode ST Fibre Converter (1300nm 2km)
FC-1000S20	10/100/1000 Base-T/TX to 1000Base-SX/LX Singlemode SC Fibre Converter (1310nm 20km)
FC-1000MLC	10/100/1000 Base-T/TX to 1000Base-SX/LX Multimode LC Fibre Converter (1300nm 2km)
FC-1000MLC-550	10/100/1000 Base-T/TX to 1000Base-SX/LX Multimode LC Fibre Converter (850nm 550m)
FC-1000MSC-550	10/100/1000 Base-T/TX to 1000Base-SX/LX Multimode SC Fibre Converter (850nm 550m)
FC-1000MST-550	10/100/1000 Base-T/TX to 1000Base-SX/LX Multimode ST Fibre Converter (850nm 550m)
FC-1000SLC20	10/100/1000 Base-T/TX to 1000Base-SX/LX Singlemode LC Fibre Converter (1310nm 20km)