

# DATASHEET

## **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

In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where shown, may not be to scale. Dimensions are metric and size maybe approximate. Where possible data sheets including MSDS are made available on our website and apps. All products should be installed and used in accordance to manufacturer's instruction provided. Warning: products may be subject of registered designs and patents. Refer to our website or apps for terms and conditions on warranty.



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### SPECIFICATIONS

Complies With Connector	IEEE802.3 10BASE-T Standard IEEE802.3u 100BASE-TX/FX Fast IEEE802.3ab 1000BaseT IEEE802.3z 1000BaseSX/LX UTP RJ-45 connector, optical SC, ST connector		
Data Buffer	2 Megabyte		
	Multi-mode:	Single-mode:	
Wavelength (typical)	850nm (≤550m)	1310nm up to 60km	
	1300nm(≤2km)	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)

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