



10/100/1000M Media Converter

LT-MC80G

100/1000M fiber to 10/100/1000Base-T media converter

DIP switch enhanced functionality and temperature hardened

Overview

Teroline's LT-MC80G media converters connect 100M or 1000M speed fiber optic segments to 10/100/1000Base-T media using switching technology. The converters support auto-negotiation of line rate on the RJ-45 copper interface and can be forced to 100M both on its fiber and copper interfaces. The products allow Ethernet data transmission of up to 10K byte packet size thus offer suitable solution for VLAN trunks, Q-in-Q, MPLS connections or other applications where jumbo frame support is required. Enhanced functionality adds support for Link Fault Pass through (LFP), network storm suppression and forced 100M operation. Thanks to its SFP interface, the converter supports both multimode and single mode fiber connections including single fiber and CWDM/DWDM options, through the use of appropriate SFP transceivers.

It is a small sized equipment with fanless design and low power consumption for cost effective, maintenance-free operation. It complies with the listed Ethernet standards, has built-in lightning protection and anti-static protection and features a wide-range operating temperature from -20°C to +70°C.

Key features

- > 10/100/1000BASE-T RJ45 interface with auto MDI/MDI-X function
- > IEEE 802.3/802.3u/802.3ab/802.3z/ Ethernet standard compliant
- > Auto-negotiation of 10/100/1000Mbps and half/full duplex mode (on copper port only)
- > Fan-less design, plug and play installation
- > Watchdog function, which can restart the equipment automatically when it is frozen
- > Store and forward operation with 1M large buffer and 8K MAC address
- > 4KV surge protection; ESD: 8KV/contact, 15KV/air protection
- > DIP switch configurable LFP, storm control and forced line rate

Specifications

Interface Specifications	Fiber port:	1 x 100/1000Base-X SFP (no auto-negotiation) without SFP transceiver
	Copper port:	1*10/100/1000Base-T (RJ45)
Power Specifications	Input voltage:	5VDC
	Power consumption	≤1.6W
	Power interface	DC Jack
LED Indicators	1 – Copper 1000M	Electrical port speed rate indicator
	2 – Fiber Link/Act	Fiber port link/data transmission indicator
	3 – FDX	Electrical port Full Duplex indicator
	4 – Copper 100M	Electrical port speed rate indicator
	5 – Copper Link/Act	Electrical port link/data transmission indicator
	6 – PWR	Power on indicator
DIP Switch	1- Link Fault Pass through	2 – Network storm suppression
	3 – Fiber port forced 100M	4 – Electrical port forced 100M
Ethernet switching	MAC address table	8K
	Buffer size	1M
	Supported packet size	10K Byte
	Forwarding delay	<5 usec
Standards	IEEE 802.3	10BASE-T
	IEEE 802.3u	100BASE-TX
	IEEE 802.3ab	1000Base-T
	IEEE 802.3z	1000Base-X
	IEEE 802.3x	Full-duplex flow control
Environment	Operating temperature	-20°C~70°C
	Storage temperature	-40°C~85°C
	Relative humidity	5%~95% (non-condensing)
	Thermal design	Fan-less, natural heat dissipation
	MTBF	100,000 hours
Standards compliance	Surge protection of Power	IEC 61000-4-5 Level 4 (4KV) (8/20us)
	Surge protection of Ethernet port	IEC 61000-4-5 Level 3 (2KV) (10/700us)
	ESD	IEC 61000-4-2 Level 4 (8K/15K)
	Free fall	0.5m
	Certifications	CE, FCC, RoHs
Physical parameters	Dimensions	95*71*27mm
	Weight	Net weight 0.2KG
	Installation Method	Desktop, wall-mount

Ordering information

Model	Description
LT-MC80G	Media converter with 1*10/100/1000M RJ45 port + 100/1000 SFP port and DIP switch (without SFP module)