



LT-MC80G-M1

Ultra compact
Gigabit Ethernet
media converter

*Temperature hardened
With USB power option*

10/100/1000M Media Converter

Overview

Teroline's LT-MC80G-M1 is an ultra-compact plug-and play 10/100/1000Base-T to 1000Base-X media converter with the size of a lighter and it weights 60g only. It conveniently slips into any pocket or laptop carrying case for easy portability or can be easily hidden away in a desktop environment. The converter can be USB powered by standard USB ports or by 5VDC power adapter.

LT-MC80G-M1 connects 1000M speed fiber optic segments to 10/100/1000Base-T media using switching technology. The converter supports auto-negotiation of line rate on the RJ-45 copper interface. 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. 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 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)
- > Ultra-compact 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
- > Operating temperature: -20°C~70°C

Specifications

Interface Specifications	Fiber port:	1 x 1000Base-X SFP (without SFP transceiver)
	Copper port:	1*10/100/1000Base-T (RJ45)
Power Specifications	Input voltage:	5VDC
	Power consumption	≤1.2W
	Power interface	DC Jack
LED Indicators	Green LED	Electrical port Link/Act indicator
	Yellow LED	Electrical port 1000M speed rate indicator
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	79*23*18mm
	Weight	Net weight 57g
	Installation Method	Desktop

Ordering information

Model	Description
LT-MC80G-M1	Ultra-compact media converter with 1*10/100/1000M RJ45 port + 1000M SFP port (without SFP module)