teroline

10G Media Converter

LT-MC80X

Universal 10G fiber to Multigigabit copper media converter

Temperature hardened and increased surge protection

Overview

Teroline's LT-MC80X media converters transparently connect 10G speed fiber optic segments to 10M/100M/1G/2.5G/5G/10GBase-T media. The converters support auto-negotiation of line rate on the RJ-45 copper interface. The products allow Ethernet data transmission of up to 9K 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 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℃ to +70℃.

Key features

> 10/100/1G/2.5G/5G/10G BASE-T RJ45 interface with auto MDI/MDI-X function, 10GBASE-X SFP+ slot interface

> IEEE 802.3u/802.3ab/802.3bz/802.3ae Ethernet standard compliant

> Supports auto-negotiation and 100Mbps half/full duplex and 1/2.5/5/10Gbps full duplex mode

> Fan-less design, plug and play installation

> Watchdog function, which can restart the equipment automatically when it is frozen

> Wide range input voltage: DC5-12V

> 4KV surge protection; ESD: 8KV/contact, 15KV/air protection

Specifications

Interface Specifications	Fiber port:	1 x 10GBase-X SFP+ (without SFP+ transceiver)
	Copper port:	1*10/100/1G/2.5G/5G/10G Base-T (RJ45)
	Supported packet size	10K Byte
Power Specifications	Input voltage:	5-12VDC
	Power consumption	≤4.1W
	Power interface	DC Jack
LED Indicators	1 - PWR	Power on indicator
	2- Link/Act	Fiber port data receiving/transmission indicator
	3 - SD	Fiber signal detection indicator
	4- 10G	Electrical port speed rate indicator
	5 – Link	Electrical port link indicator
	6 – ACT	Electrical port data receiving/transmission indicator
Standards	IEEE 802.3u	100BASE-TX
	IEEE 802.3ab	1000BASE-T
	IEEE 802.3bz	2.5G/5GBASE-T
	IEEE 802.3an	10GBASE-T
	IEEE 802.3ae	10Gbps Ethernet
	IEEE 802.3x	Full-duplex flow control
Environment	Operating temperature	-20℃~70℃
	Storage temperature	-40℃~85℃
	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-MC80X	10G media converter with 1*10/100/1G/2.5G/5G/10G RJ45 port + 10G SFP+