

10/100M Media Converters

Enhanced Function With Dip Switch

LT-MC80F Series

Overview:

LT-MC80F enhanced function series Ethernet media converter can interconvert electrical signals of 10Base-T and 100Base – TX twisted pairs with optical signals of 100Base-FX. It extends the network transmission distance from 100m via copper cables to 120 km via fiber optical cable. The key function of enhanced series are supporting LFP, network storm suppression, fixing the electrical port on 10M and full duplex operation state. It enables the data to transmit in two different mediums of electrical and optical networks either by the technology of data link L2 store-and-forward, or by the one of PHY L1 cut-through). It supports transmission in Multi-mode dual fiber, single mode dual fiber, single mode single fiber

Picture



Features:

- 10/100Mbps auto-sensed, facilitating network upgrade
- Dip switch function: supporting LFP, network storm suppression, fixing the electrical port on 10M and full duplex operation state

- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Full-duplex and half-duplex auto-sensed
- Supporting auto-sense of MDI/MDI-X, facilitating system commissioning and installation
- Supporting half /full-duplex of FX.
- Supporting 10/100Mbps store-and-forward and 100Mbps cut-through transmission.
- Supporting the transmission of 100Base-FX or STM-1, compatible with other devices
- Supporting low-time lag transmission
- Supporting watchdog function, which can restart the equipments automatically when it is

Frozen

- Extremely low power consumption ($\leq 0.8W$), reliable and stable performance
- Options in Multi-mode dual fiber, single mode dual fiber, single mode single fiber
- Transmission distance 2KM ~ 120KM optional
- 4KV surge protection, ESD: Air-15kV, Contact-8kV protection

Technical specification

Port interface	
Fixed port	1*100 Base-X SC port(FC/ST optional) + 1*10/100 Base - T RJ45 port
Power interface	DC jack
Ethernet standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u,100Base-TX/FX Fast Ethernet, IEEE802.3x Flow Control
LED indicators	
PWR	Power supply indicator
FDX	Electrical port operation mode indicator
Link/Act	Link state indicator
Copper 100M Link	Electrical port speed rate indicator
Fiber 100M Link	Fiber port speed rate indicator
Dip switch function	
1: LFP	2: Network storm suppression
3: Fixing the electrical port on 10M	4: Electrical port full duplex

Cable type & transmission distance	
Twisted-pair	0-100m (CAT5e,CAT6)
Multimode optical fiber	2KM
Single mode dual fiber	20/40/60/80/100/120KM
Single mode single fiber	20/40/60/80/100KM
Electrical specification	
Input voltage	DC 5V
Total Power consumption	≤0.8W
Layer 2 switching	
Switching capacity	1G
Packet forwarding rat)	0.744Mpps
MAC address table	2K
Buffer	2K
Forwarding delay	<5us
MDX/MIDX	Support
Watchdog	Support
LFP	Support
Environment	
Operating temperature	-20°C~70°C
Storage temperature	-40°C~85°C
Relative humidity	5%~95% (non-condensing)
Thermal methods	Fan-less, natural heat dissipation
MTBF	100,000 hours
Protection & Certification	
Power surge protection	IEC 61000-4-5 Level 4 (4KV) (8/20us)
Ethernet port surge protection	IEC 61000-4-5 Level 3 (2KV) (10/700us)
ESD	IEC 61000-4-2 Level 4 (8K/15K)
Free fall	0.5m
Certification	CE, FCC, RoHs
Structure	
Dimension(mm)	93*71*27mm
Installation method	Desktop, wall-mount
Weight	Net weight 0.2KG

Order information

Model	Description
LT-MC80F-SC02	10/100Base-TX to 100Base-FX, 1*100M SC port + 1*10/100M RJ45 port ,multi-mode, 2km, SC, standalone, external power adaptor, enhanced function with Dip switch
LT-MC80F-SC20	10/100Base-TX to 100Base-FX, 1*100M SC port + 1*10/100M RJ45 port ,single mode dual fiber, 20km, SC, standalone, external power adaptor. 40/60/80/100/120KM optional, ST/FC optional, enhanced function with Dip switch
LT-MC80F-SC20A	10/100Base-TX to 100Base-FX, 1*100M SC port + 1*10/100M RJ45 port, single mode single fiber, 20km, SC, TX1310nm, standalone, external power adaptor; 40/60/80/100KM optional, ST/FC optional, enhanced function with Dip switch
LT-MC80F-SC20B	10/100Base-TX to 100Base-FX, 1*100M SC port + 1*10/100M RJ45 port, single mode single fiber, 20km, SC, TX1550nm, standalone, external power adaptor; 40/60/80/100KM optional, ST/FC optional, enhanced function with Dip switch