

## 10/100/1000M Media Converters

### Enhanced Function with Dip switch

#### LT-MC80G-SC Series

#### Overview:

LT-MC80G-SC enhanced function series are the 10/100/1000Mbps adaptive Gigabit Ethernet media converter which adopt switching technology to fulfill media conversion. It complies with IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab standards. They provide media conversion between 10/100/1000Base-T and 1000Base-SX/LX interfaces such as multi-mode LC/SC connectors (220m / 550m), single-mode LC/SC connectors (20//40/60/80/100km) and single fiber connectors (WDM, 20/40/60/80km) for various fiber optic applications, which can be widely used in powerful solution for FTTX projects. The key function of enhanced series are supporting LFP, network storm suppression, forcing the electrical port and fiber port on 100M, which can meet with the different application requirement.

#### Picture



## Features

- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX
- Media conversion between 10/100/1000Base-T and 1000Base-X
- Supporting auto-sensing full-duplex and half-duplex operation
- Supporting auto-sensation of MDI/MDI-X, facilitating system commissioning and installation
- Supporting watchdog function, which can restart the equipments automatically when it is

Frozen

- Dip switch function: supporting LFP, network storm suppression, forcing the electrical port and fiber port on 100M
- Supporting 1M Large buffer
- Supporting Jumbo frame 10Kbytes
- Supporting Quality of Service (QoS) and ensuring the transmission of VoIP packets;
- Store-and-Forward mechanism
- Options in multi-mode dual fiber, single mode dual fiber, single mode single fiber
- Transmission distance 2KM ~ 100KM optional
- 4KV surge protection, ESD: Air-15kV, Contact-8kV protection

## Technical specification

<b>Port interface</b>	
Fixed port	1*1000 Base-X SC port(ST/FC optional)+ 1*10/100/1000 Base - T RJ45 port
Power interface	DC jack
Ethernet standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX Fast Ethernet, IEEE802.3ab 1000Base-T , IEEE802.3z 1000Base-SX Gigabit Ethernet
<b>LED indicators</b>	
PWR	Power supply indicator
FDX	Electrical port operation mode indicator

Link/Act	Link state indicator	
Copper 100M Link	Electrical port speed rate indicator	
Copper 1000M Link	Electrical port speed rate indicator	
Fiber Link/Act	Fiber port link state indicator	
<b>Dip switch function</b>		
1. LFP	2. Network storm suppression	
3. Forcing fiber port on 100M	4. Forcing electrical port on 100M	
<b>Cable type &amp; transmission distance</b>		
Twisted-pair	0-100m (CAT5e,CAT6)	
Single mode dual fiber	20/40/60/80/100KM	
Single mode single fiber	20/40/60/80KM	
Multimode dual fiber	550m	
<b>Electrical Specifications</b>		
Input voltage	DC 5 V	
Total Power consumption	full load≤1.6W	
<b>Layer 2 Switching</b>		
Switching capacity	14G	
Packet forwarding rate	10.416Mpps	
MAC address table	8K	
Buffer	1M	
Forwarding delay	<5us	
MDX/MIDX	Support	
Jumbo Frame	Support 10Kbytes	
Watchdog	Support	
LFP	Support	
<b>Environment</b>		
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	
<b>Protection &amp; Certification</b>		
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	
<b>Structure</b>		
Dimension	93*71*27mm	

Installation method	Desktop, wall-mount
Weight	Net weight 0.2KG

### Order information

Model	Description
LT-MC80G-SC	10/100/1000Base-T to 1000Base-X,1*Gigabit SC port +1*10/100/1000M RJ45 port, mutli-mode,550m, SC standalone, external power adaptor; FC/ST optional, enhanced function with Dip switch
LT-MC80G-SC20	10/100/1000Base-T to 1000Base-X, 1*Gigabit SC port +1*10/100/1000M RJ45 port , single-mode dual fiber, 20km, SC standalone, external power adaptor; 40/60/80/100KM optional, ST/FC optional, enhanced function with Dip switch
LT-MC80G-SC20A	10/100/1000Base-T to 1000Base-X, 1*Gigabit SC port +1*10/100/1000M RJ45 port, single-mode single fiber, 20km, SC standalone, TX1310nm, external power adaptor; 40/60/80KM optional, ST/FC optional, enhanced function with Dip switch
LT-MC80G-SC20B	10/100/1000Base-T to 1000Base-X,1*Gigabit SC port +1*10/100/1000M RJ45 port, single-mode single fiber,20km, SC standalone, TX1550nm, external power adaptor; 40/60/80KM optional, ST/FC optional, enhanced function with Dip switch