

## 10/100/1000M Media Converters

### LT-MC60G-SC Series

#### Overview:

LT-MC60G-SC 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

#### 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-SX
- 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
- 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
- 2KV 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>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
<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>	
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-MC60G-SC	10/100/1000Base-T to 1000Base-X, mutli-mode, 550m, SC standalone, external power adaptor; FC/ST optional
LT-MC60G-SC20	10/100/1000Base-T to 1000Base-X, single-mode dual fiber, 20km, SC standalone, external power adaptor; 40/60/80/100KM optional, ST/FC optional

LT-MC60G-SC20A	10/100/1000Base-T to 1000Base-X, single-mode single fiber, 20km, SC standalone, TX1310nm, external power adaptor; 40/60/80KM optional, ST/FC optional
LT-MC60G-SC20B	10/100/1000Base-T to 1000Base-X, single-mode single fiber, 20km, SC standalone, TX1550nm, external power adaptor; 40/60/80KM optional, ST/FC optional