

# *Light Optics*

## *Building a brighter future*

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### **LO-MC-1000DMS**

#### **10/100/1000M SFP Port Ethernet Fiber Media Converter**

Light Optics Series Gigabit Fiber Media Converter Offering the flexibility with all kinds of 10/100/1000Mbps Ethernet Media on RJ-45 port and performing highly stable Gigabit fiber capability, the Light Optics Gigabit media converter series LO-MC-1000DMS supports conversion between 10/100/1000Base-T and 1000Base-LX/SX network.

#### **Main features**

- ◆ Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX
- ◆ TP port supports 10/100/1000Base-T auto-negotiation and auto-MDI/MDI-X
- ◆ 1000Base-T: 2-pair Cat. 5/5e/6 UTP cable, up to 100 meters
- ◆ Auto-Negotiation for 10/100/1000Base-T; Half-Duplex or Full-Duplex for 10Mbps and 100Mbps
- ◆ Layer 2 key Feature
  - IEEE 802.3x Full-Duplex Flow-Control and Back-Pressure in Half-Duplex eliminate the loss of packets
  - Support auto MDI/MDI-X function
  - Store-and-Forward mechanism
  - Non-blocking full wire-speed forwarding rate
- ◆ Media conversion between 10/100/1000Base-T and 1000Base-SX/LX
- ◆ Compact size for easy installation and working with Light Optics LO family Media Chassis (LO-MC-CH14 series)
- ◆ Wall-Mountable design
- ◆ LED indicators for easy network diagnose
- ◆ Choice of fiber-connector from 1000Base SFP interface

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### **Technical Specifications**

◆ Operating standards:

IEEE802.3 10Base-T Ethernet,  
IEEE802.3u 100Base-TX/FX Fast Ethernet,  
IEEE802.3ab 1000Base-T ,  
IEEE802.3z 1000Base-SX/LX Gigabit

◆ MAC address table: 4K

◆ Data Buffer: 256K

◆ Connector: UTP: RJ-45,10/100/1000Mbps; Fiber: SC,1000Mbps

◆ Cable :

UTP cable: Cat 5e or Cat 6 (the max distance up to 100m)

◆ Dip Switch Setting

SW1: LFP functionality  
SW2: Converter / Switch Mode

◆ Flow control

Full Duplex: IEEE802.3x  
Half Duplex: back pressure.

◆ Conversion mode: Medium conversion

◆ Delay: <10 $\mu$ s

◆ Bit error rate: <1/1000000000

◆ MTBF: 80,000 hours

◆ LED:

POWER (power),  
FX LINK (fiber link action),  
TP LINK1000 (twisted pair connection 1000M)  
TP LINK100 (twisted pair connection 100M),  
TP ACT (twisted pair packet forwarding action)  
FDX (Ethernet interface mode indicator ON, Full duplex/ OFF, Half duplex)

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◆ Power Requirement:

Input :AC 170 ~ 240V

Output:DC 5V 2A

◆ Power consumption: 5W

◆ Ambient temperature: 0 ~ +50°C

◆ Storage temperature: -20 ~ +70°C

◆ Humidity: 5% ~ 90%

◆ External power: 26×70×93mm

### **Order Information**

<b>Model</b>	<b>Product description</b>
LO-MC-1000DMS	LO-MC-1000DMS -10/100/1000M SFP Port Ethernet Fiber Media Converter, dip switch manage