

# MLS-101G-S Green Gigabit Ethernet Convert



## Product Introduction

### ◆ High quality, cost-effective solution

Easy convert from RJ45 Interface to Fiber Network. It's easy help to make Exist Ethernet Switch RJ45 port upgrade to Fiber port. MLS-101G-S is GigaBit Ethernet Convert, easy to convert 10/100/1000 Base-T to 100BaseFX /1000Base-X Fiber-optical network. Fiber port can install different type SFP/WDM/Single-Mode/Multi-Mode/Distance/Operation Temperature GBIC modules.

### ◆ Efficient use of fiber-optic network to extends transmission distance

Ultra-high-speed fiber convert. MLS-101G-S the use of fiber optic cable, in line with Gigabit performance. MLS-101G-S series offers an optional SFP interface, to cope with different fiber specifications or communication distance needs, such as multi-mode and single-mode (550M / 10Km), or any other communication distance and wavelength (30/40/50 / 70 / 120KM) and a single fiber optic cable connector (WDM / BIDI, 15 / 60KM) in line with a variety of fiber optic applications.

### ◆ Smart to Enhanced fiber connection management function

MLS-101G-S provides automatic MDI / MDI-X using its own Trunk connection port and built-in automatic setting mode (LFP). LFP features include Link Fault Pass Through function (LLCF / LLR). When the optical fiber connected to the 100FX, it can automatically network MDI / MDI-X port is set to 100Mbps, while if the fiber is connected to the 1000Base-X, it will also automatically Internet MDI / MDI-X port is set to 1000Mbps.

LLCF / LLR can immediately provide a warning to the managers, to provide an efficient solution to monitor the network.

LLCF (Link Loss Carry Forward) means when the device is connected to the converter's fiber optic TP port, when the fiber down time, the device will automatically disconnect the transmission link. LLR (Link Loss Return) When a device is connected to the converter and the poor quality of the optical line, the converter's fiber will disconnect the transmission. Both can instantly alert administrators to connection problems, provide efficient network monitoring solution.

## Key Features

- 1.) Green Product, Power Consumption less than 1.5 Watts
- 2.) Fiber port provide 100FX/1000Base-X Smart-Link Function
- 3.) Support Wide DC Voltage Input from 5 to 36V
- 4.) Support Wide Operating Temperature from -20°C to 75°C (4°F ~ 167°F) Non-condensing

Product Model	MLS-101G-S, Green Gigabit Ethernet Convert
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### Technical Specifications

#### Hardware

Connector Interface	1x 10/100/1000 Base-T RJ45 TP
	1x SFP socket
	1x DC Jack
Indicators	1x Power LED
	2x TRUNK Link speed LED(100Mbps/1000Mbps)
	1x TRUNK Link/Act LED
Power Protection : (Surge)	IEC 61000-4-2 level 4 (ESD) , 15 kV (air discharge), 8kV (contact discharge)
	IEC-61000-4-5
	MIL STD 883G, method 3015-7 Class 3B, -25kV HBM(human body model)
Device Installation	Wall Mount
Dimension( Main Unit)	155mm(W) x 83mm(D) x 30mm(H)
Weight( Main Unit)	145 g
Power Requirement	External Power Supply : DC 5V~36V
	Power Consumption : <1.5 Watts

#### Network Standards

Network Standards	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-T
	IEEE802.3ab 1000Base-T
	IEEE802.3x Full Duplex and Flow Control
	IEEE802.3az-2010 (Energy Efficient Ethernet)
	MDI/MDI-X Auto Crossover
Packet Handle	Operate in store and forward mode
MAC address	Support 9K MAC address entries
Flow Controller	Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex
Backplaneswitching Capacity	2Gbps
Support Maximum Packet size	9K Jumbo Frame
Emissions Compliance	FCC part 15 Class B, CE Mark
Environmental Conditions	Operating Temperature : -20°C ~ 75°C (4°F ~ 167°F)
	Storage Temperature : -20°C ~ 75°C (4°F ~ 167°F)
	Operating Humidity : 10% ~ 90%, Non-condensing. 20-80% (Storage)

### Ordering Information

MLS-101G-S	Green Gigabit Ethernet Convert
1.25G-SFP-MM-C	1.25G, MM 850nm, 550M, 0~75°C, Dual LC
1.25G-SFP-SM-C	1.25G, SM 1310nm, 10Km, 0~75°C, Dual LC

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REV : 1.0