Residential Access Device
IP Managed Giga Fiber Switch

MLS-104G-S-MA

IP Managed Giga Fiber Switch

Built-in energy-saving Green Network technology
L2 Managed Fiber Switch for FTTx CPE Application
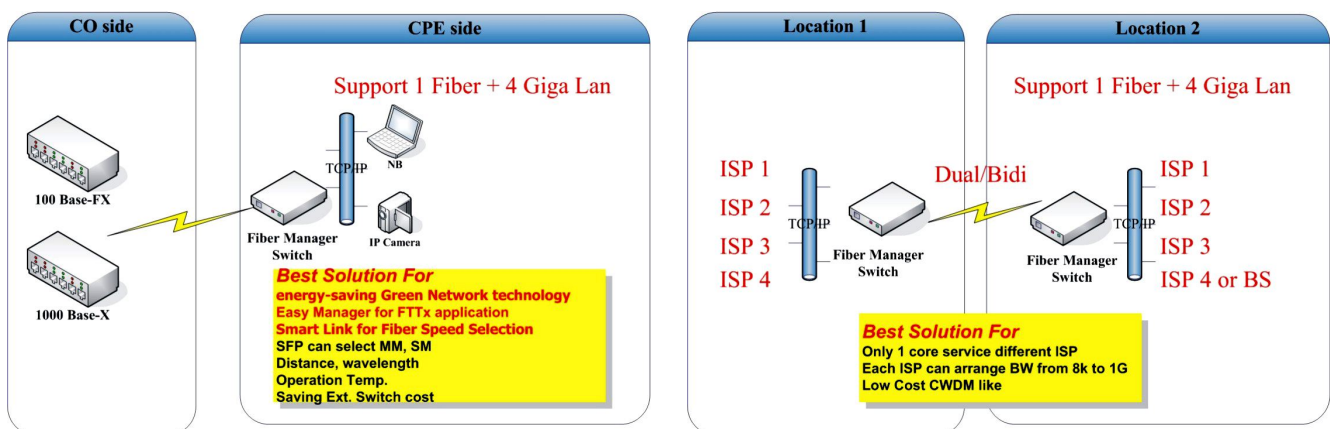*Smart Link for Fiber Speed Selection*

Description

The MLS-1O4G Series Provides three advantages and integration to an stand-alone optical fiber Network Managed switch for 4 x 10/100/1000Base-T. This Fiber Managed Switch with its idea functions Smart Link ability of selecting either 100Base-FX or 1000Base-X on the fiber port, using the SFP module. With this converter the FTTx networks can grow from today's need of 100Mbps to tomorrow's need of 1Gbps without the need of physically upgrading the converter. Simply exchange the 100 Mbps SFP in the access node switch with a 1Gbps SFP (the access node switch must of course support Gbps speed). The converter will then automatically select the higher speed and you now have a full featured Gbps network all the way to the end-user.

Features

◆ Power Saving Up to 60%.
◆ Layer II feature for IP remote manager meet the FTTx application.
◆ Smart Link converter that supports both 100Mbps and 1Gbps on the fiber port for using SFP module.
◆ Operates in store and forward mode.
◆ MDI/MDIX auto-crossover for TP ports.
◆ Auto-negotiation (10/100/1000 Mb/s) for TP ports.

Application Diagram

Product Model	MLS-1O4G-S-MA, 4port Green Gigabit Ethernet IP Managed Fiber Switch
Technical Specifications	
LAN Interface	Four RJ-45 female connector for straight or cross-over connection Supports 10/100/1000Base-TX, n-way (Auto-Negotiation) Supports Full, Half duplex, 10/100/1000 speed Auto mode selections(1000M only support Full duplex mode) Transmission Packet Rate for 10/100Base-TX : 14880/148800 per second ; 1000Base-T : 1488000 per second Copper TP cable 4 pair Cat. 5e or 6 UTP
Optical Interface Specification	Transceiver type : SFP type socket Supports 155 Mbps and 1.25 Gbps for multi-rate speed 1x9 for 1x9 socket (option for OEM model)
General Specification	Operate in store and forward mode Support IEEE802.3 10BASE-T Support IEEE802.3u 100BASE-TX Support IEEE802.3ab 1000BASE-T Support 8K MAC address Support Auto MDI/MDIX Support 9K Jumbo Frame Support TP Port Auto-negotiation(10/100/1000 Base and Full/ Half mode) Support Auto MDI/MDIX MTBF : 100,000 h (25℃)
Layer II Managed Switch feature	Support Web SNMP managed feature Support 802.1Q/QoS priority/ port setting Support Q in Q double VLAN tagging Support IGMP v1/v2 snooping Support Port Trunk setting Support IEEE 802.3ad LACP function Support LAN Loop Prevention Support Port Mirroring Support port rate limit from 8K to 1Gbps (step 8K for Ingress/Egress per port) Support 9216 Jumbo Frame Support Green Ethernet Support 802.3az EEE function Support Port Statistics Monitor Support Port Cable Diagnostic Support Firmware Upgrade and configuration backup Support Auto Provision(option) Support Managed VLAN tagging(option)
Indicators	Power LED Fiber Link/Act LED LAN 1~4 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)
Dimension	155mm(W) x 83mm(D) x 30mm (H)
Weight	320g
Power Requirement	External Power Supply : 12V/1A Power Consumption : <5 Watts
Emissions Compliance	FCC part 15 Class B, CE Mark
Environmental Conditions	Operating Temperature : 0 ~ 70℃ Storage Temperature : -10 ~ 70℃ Operating Humidity : 5% ~ 90%, Non-condensing. 5 ~ 90% (Storage)

Ordering Information

MLS-1O4G-S-MA-x-XX	Managed, 4PORT 100/1000 M Fiber Switch with included Smart Link function
MLS-1O4G-S-MA-x-S-XX	Steel Case, Managed, 4PORT 100/1000 M Fiber Switch with included Smart Link function

Note : x=1 DC IN 12VDC US type power adapter, Support 100~240V 50~60HZ AC IN
      x=2 DC IN 12VDC Euro type power adapter, Support 100~240V 50~60HZ AC IN
      LX SFP, 1.25G SM, Dual LC, 20km above
      SX SFP, 1.25G MM, Dual LC, 550M

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REV : C1