

# LMX-1002C-SFP Series

## Features

**10-Port Industrial Gigabit Managed Ethernet Switch, with 8\*10/100Tx and 2\*Gigabit Combo (2\*10/100/1000Tx RJ45 and 2\*100/1000 SFP Slots)**



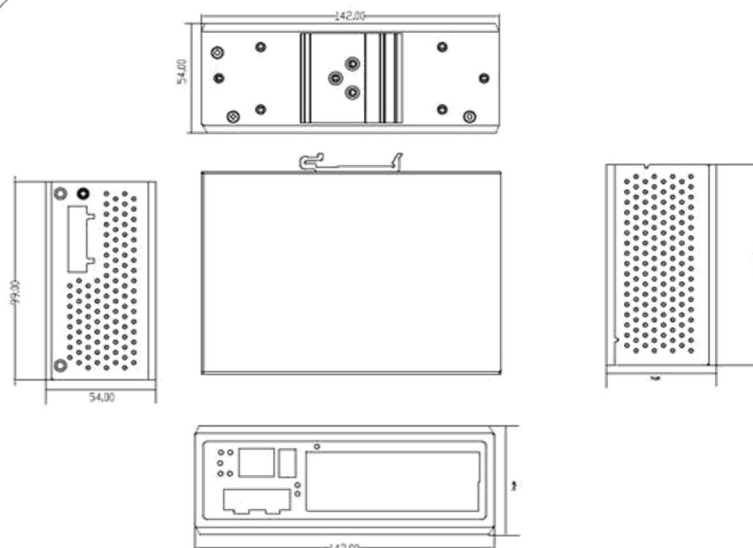
- ▶ Supports 8\*10/100Tx Fast Ethernet Ports and 2\*Gigabit Combo Ports (2\*10/100/1000Tx RJ45, or 2\*100/1000 SFP Slots) for Fiber Connection
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ IGMP v1/v2 for Multicast Traffic Filtering
- ▶ QoS (IEEE802.1p/1Q), CoS/ToS to Increase Determinism
- ▶ IEEE802.1Q VLAN for Easy Network Planning
- ▶ Enhanced Network Security with IEEE802.1X, SNMP v1/v2c/v3, HTTPS, and SSH/SSL
- ▶ Auto Warning by Exception through E-mail, Relay Output
- ▶ Support RMON Function for Efficient Network Monitoring
- ▶ Support Port Mirroring for Online Diagnostic
- ▶ 5-Year Warranty

## INTRODUCTION

**Antaira's LMX-1002C-SFP series** is a 10-port industrial gigabit managed Ethernet switch that is embedded with eight gigabit Ethernet ports and two dual rate (100/1000) SFP slots for fiber connection. The gigabit combo ports provide flexibility to users for 10/100 or 1000Tx Fast Ethernet or plug in an SFP key module for a 100MB or Gigabit fiber connection to achieve bandwidth or distance concern applications. It is a fully manageable Layer 2 Ethernet switch that is pre-loaded with a user-friendly web management console design. It supports the ring network redundancy function using the market's open standard ITU-T G.8032 ERPS (Ethernet Ring Protection Switch) protocol that has a <50ms network recovery time. The advanced network filtering and security functions, such as, IGMP, VLAN, QoS, SNMP, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMX-1002C-SFP series is compact, IP30 rated, and DIN-rail or wall mountable. There are also two wide operating temperature models for either a standard temperature range (STD: -10°C to 70°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides high EFT and ESD protection for industrial networking applications, such as, power/utility, water wastewater, oil/gas/mining, factory automation, security surveillance, ITS and any other outdoor or harsh environment.

## DIMENSIONS



## SPECIFICATIONS

Technology	
Standards	IEEE 802.3 10Tx Ethernet
	IEEE 802.3u 100Tx Fast Ethernet
	IEEE 802.3ab 1000Tx Gigabit Ethernet
	IEEE 802.3z Gigabit Fiber
	IEEE 802.3x Flow Control for Full Duplex
	IEEE 802.3ad for Port Trunk with LACP
	IEEE 802.1d STP (Spanning Tree Protocol)
	IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)
	IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)
	ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch) Protocol
Protocol	IEEE 802.1Q for VLAN Tagging
	IEEE 802.1x for Network Authentication
	IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization
	IGMPv1/v2, SNMPv1/v2c/v3, TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP Option 66/67/82, SSH/SSL, Modbus/TCP, LLDP, IPv4/IPv6
Switch Properties	
Switch Architecture	Back-Plane (Switching Fabric): 5.6Gbps
Configuration	Web Console, Telnet, CLI
Processing Type	Store and Forward
Flow Control	IEEE 802.3x for full duplex mode, back pressure for half duplex mode
Transfer Rate	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet
Packet Buffer	4 Mbits
Jumbo Frame	-
MAC Table Size	8K
VLAN Group	1 ~ 4094
IGMP Group	Up to 256 Groups
Port Interface	
Ethernet RJ45 Port	8*10/100BaseTx auto negotiation, Full/Half duplex, and auto MDI/MDI-X connection
Gigabit Combo Ports	2*RJ45 w/10/100/1000Tx Fast Ethernet and 2*100/1000 SFP Slot For Fiber
Wavelength	Refer to SFP Modules
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8,N,1
Configuration Backup	1*USB 2.0
Protection	
Overload Current	Present
Power Reverse Polarity	Present
CPU Watchdog	Present
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable; 100Base-TX: 2-pair UTP/STP Cat. 5 cable. EIA/TIA-568 100-ohm (100m)
	1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
Mechanical Characteristics	
LED Indicator	Per Unit: Power 1 & 2 (Green), Fault (Red)
Housing	Metal IP30 rated
Dimension	54 x 142 x 99 mm
Weight	Unit: 2.2 lbs.; Shipping: 3.3 lbs.
Mounting	DIN-Rail; Wall-Mount (optional)
Power Requirement	
Input Voltage	12~48VDC Redundant Input
Power Connection	1 removable 6-contact terminal block
Power Consumption	15 Watts
Environmental Limits	
Operating Temperature	STD: -10 to 70°C EOT: -40 to 75°C
Storage Temperature	-40°C ~ 85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)
Regulatory Approvals	
EMI	FCC Class A
EMS	IEC61000-4-2,3,4,5,6,8 IEC61000-6-2,4
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE, UL61010-1, 61010-2-201 NEMA TS2
Warranty	5 Years

## ORDERING INFO

LMX-1002C-SFP	10-Port Industrial Gigabit Managed Ethernet Switch with 8*10/100Tx, and 2*Gigabit Combo Ports (2*10/100/1000Tx RJ45 Ports, or 2*100/1000 SFP Slots)
LMX-1002C-SFP-T	10-Port Industrial Gigabit Managed Ethernet Switch with 8*10/100Tx, and 2*Gigabit Combo Ports (2*10/100/1000Tx RJ45 Ports, or 2*100/1000 SFP Slots); EOT -40° to 75° C

Optional Accessories	
MDR-40-48	40W Industrial Din Rail Power Supply (48VDC)
MDR-60-48	60W Industrial Din Rail Power Supply (48VDC)
DR-75-48	75W Industrial Din Rail Power Supply (48VDC)
DR-120-48	120W Industrial Din Rail Power Supply (48VDC)
SFP-M-T	1 Gigabit Fiber SFP Transceiver, Multi-Mode 550M / LC / 850nm, -40°C~85°C
SFP-S10-T	1 Gigabit Fiber SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40°C~85°C
DIN-RACK-2U	Din-Rail to 19" Rack Mount Adapter for all Din-Rail Mountable Products, 2U Height