

# 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)



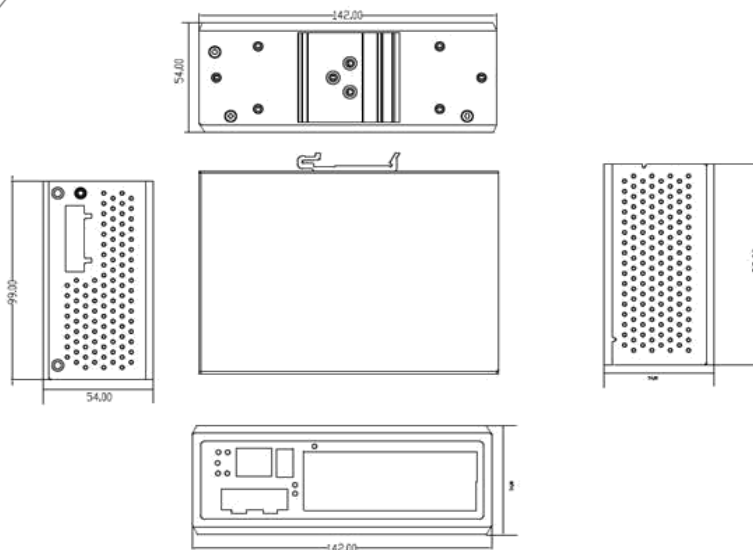
- ▶ Supports 8\*10/100Tx Fast Ethernet Ports and 2\*Gigabit Combo Ports (2\*10/100/1000Tx RJ45, or 2\*100/1000 SFP Slots) for Fiber Connection
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol 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

<b>Technology</b>	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 IEEE 802.1Q for VLAN Tagging IEEE 802.1x for Network Authentication IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization
<b>Standards</b>	
<b>Protocol</b>	IGMPv1/v2, SNMPv1/v2c/v3, TFTP, SNMP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP Option 66/67/82, SSH/SSL, Modbus/TCP, LLDP, IPv4/IPv6
<b>Switch Properties</b>	
<b>Switch Architecture</b>	Back-Plane (Switching Fabric): 5.6Gbps
<b>Configuration</b>	Web Console, Telnet, CLI
<b>Processing Type</b>	Store and Forward
<b>Flow Control</b>	IEEE 802.3x for full duplex mode, back pressure for half duplex mode
<b>Transfer Rate</b>	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet
<b>Packet Buffer</b>	4 Mbits
<b>Jumbo Frame</b>	-
<b>MAC Table Size</b>	8K
<b>VLAN Group</b>	1 ~ 4094
<b>IGMP Group</b>	Up to 256 Groups
<b>Port Interface</b>	
<b>Ethernet RJ45 Port</b>	8*10/100BaseTx auto negotiation, Full/Half duplex, and auto MDI/MDI-X connection
<b>Gigabit Combo Ports</b>	2*RJ45 w/10/100/1000Tx Fast Ethernet and 2*100/1000 SFP Slot For Fiber
<b>Wavelength</b>	Refer to SFP Modules
<b>RS232 Serial Console</b>	1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8,N,1
<b>Configuration Backup</b>	1*USB 2.0

<b>Protection</b>	
<b>Overload Current</b>	Present
<b>Power Reverse Polarity</b>	Present
<b>CPU Watchdog</b>	Present
<b>Network Cable</b>	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)
<b>Mechanical Characteristics</b>	
<b>LED Indicator</b>	Per Unit: Power 1 & 2 (Green), Fault (Red)
<b>Housing</b>	Metal IP30 rated
<b>Dimension</b>	54 x 142 x 99 mm
<b>Weight</b>	Unit: 2.2 lbs.; Shipping: 3.3 lbs.
<b>Mounting</b>	DIN-Rail; Wall-Mount (optional)
<b>Power Requirement</b>	
<b>Input Voltage</b>	12~48VDC Redundant Input
<b>Power Connection</b>	1 removable 6-contact terminal block
<b>Power Consumption</b>	15 Watts
<b>Environmental Limits</b>	
<b>Operating Temperature</b>	STD: -10 to 70°C EOT: -40 to 75°C
<b>Storage Temperature</b>	-40°C ~ 85°C
<b>Ambient Relative Humidity</b>	5 to 95%, (non-condensing)
<b>Regulatory Approvals</b>	
<b>EMI</b>	FCC Class A
<b>EMS</b>	IEC61000-4-2,3,4,5,6,8 IEC61000-6-2,4
<b>Free Fall</b>	IEC60068-2-32
<b>Shock</b>	IEC60068-2-27
<b>Vibration</b>	IEC60068-2-6
<b>Green</b>	RoHS Compliant FCC, CE, ATEX
<b>Certifications</b>	UL61010-1, 61010-2-201 NEMA TS2
<b>Warranty</b>	5 Years

## ORDERING INFO

<b>LMX-1002C-SFP</b>	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)
<b>LMX-1002C-SFP-T</b>	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

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