

# LMX-0802 Series

**8-Port Industrial Managed Ethernet Switches, w/6\*10/100Tx, 2\*100Fx, 12~48VDC Power Input**



## Features

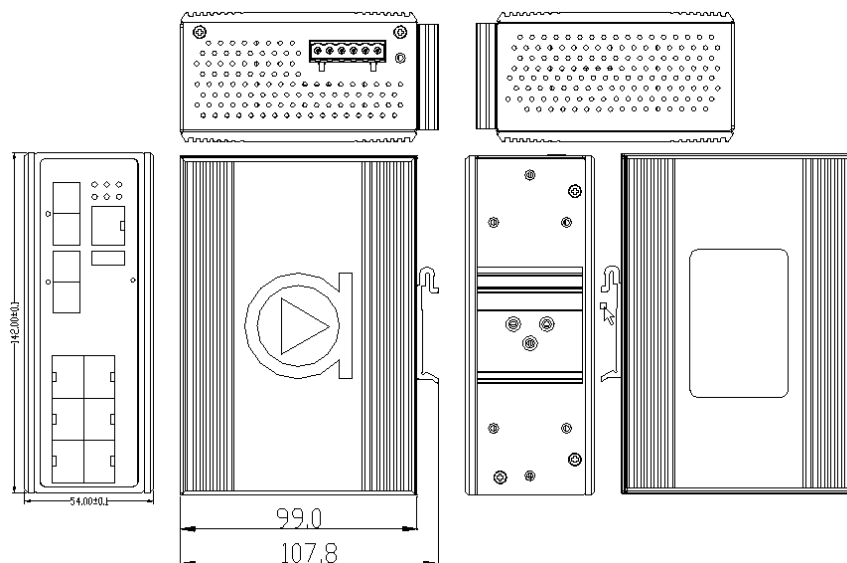
- ▶ Supports 6\*10/100Tx and 2\*100Fx (SC/ST Connectors in Multi or Single Mode Fiber)
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ IGMP v1/v2 for Multicast Traffic Filtering
- ▶ System Warning Setting for Automatic Warning through E-mail
- ▶ 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
- ▶ Operating Temp -STD: -10~70°C, EOT: -40~75°C
- ▶ 5-Year Warranty

## INTRODUCTION

**Antaira Technologies' LMX-0802 series** is an 8-port industrial managed Ethernet switch that is embedded with 6\*10/100Tx Ethernet ports and 2\*100Fx fiber ports that support SC or ST connections in either Single or Multi-Mode fiber. The LMX-0802 series 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, port lock, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LMX-0802 series is IP30 rated and DIN-rail 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 within transportation, ITS and any other outdoor or harsh environment.

## DIMENSIONS



## SPECIFICATIONS

|                             |                                                                                                                                           |                                   |                                                                                                                  |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Technology</b>           |                                                                                                                                           | <b>Protection</b>                 |                                                                                                                  |
| <b>Standards</b>            | IEEE 802.3 10Tx Ethernet                                                                                                                  | <b>Overload Current</b>           | Present                                                                                                          |
|                             | IEEE 802.3u 100Tx Fast Ethernet                                                                                                           | <b>Power Reverse Polarity</b>     | Present                                                                                                          |
|                             | IEEE 802.3x Flow Control for Full Duplex                                                                                                  | <b>CPU Watchdog</b>               | Present                                                                                                          |
|                             | IEEE 802.3ad for Port Trunk with LACP                                                                                                     | <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) |
|                             | IEEE 802.1d STP (Spanning Tree Protocol)                                                                                                  |                                   | 1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)                                                   |
| <b>Protocol</b>             | IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)                                                                                           |                                   |                                                                                                                  |
|                             | IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)                                                                                        | <b>Mechanical Characteristics</b> |                                                                                                                  |
|                             | ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch) Protocol                                                                       | <b>LED Indicator</b>              | Per Unit: Power 1 & 2 (Green), Fault (Green/Red)                                                                 |
|                             | IEEE 802.1Q for VLAN Tagging                                                                                                              | <b>Housing</b>                    | Metal IP30 rated                                                                                                 |
|                             | IEEE 802.1x for Network Authentication                                                                                                    | <b>Dimension</b>                  | 54 x 142 x 99 mm                                                                                                 |
| <b>Switch Properties</b>    | IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization                                                                                   | <b>Weight</b>                     | Unit: 2.4 lbs.; Shipping: 2.9 lbs.                                                                               |
|                             | 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>Mounting</b>                   | DIN-Rail; Wall-Mount (optional)                                                                                  |
|                             | <b>Configuration</b>                                                                                                                      | <b>Power Requirement</b>          |                                                                                                                  |
|                             | Web Console, Telnet, CLI                                                                                                                  | <b>Input Voltage</b>              | 12~48VDC Redundant Input                                                                                         |
|                             | <b>Processing Type</b>                                                                                                                    | <b>Power Connection</b>           | 1 removable 6-contact terminal block                                                                             |
| <b>Flow Control</b>         | Store and Forward                                                                                                                         | <b>Power Consumption</b>          | 15 Watts                                                                                                         |
|                             | IEEE 802.3x for full duplex mode, back pressure for half duplex mode                                                                      | <b>Environmental Limits</b>       |                                                                                                                  |
|                             | 14,880pps for 10Base-T Ethernet                                                                                                           | <b>Operating Temperature</b>      | STD: -10 to 70°C<br>EOT: -40 to 75°C                                                                             |
|                             | 148,800pps for 100Base-T Fast Ethernet                                                                                                    | <b>Storage Temperature</b>        | -40°C ~ 85°C                                                                                                     |
|                             | <b>Packet Buffer</b>                                                                                                                      | <b>Ambient Relative Humidity</b>  | 5 to 95%, (non-condensing)                                                                                       |
| <b>Jumbo Frame</b>          | 4 Mbits                                                                                                                                   | <b>Regulatory Approvals</b>       |                                                                                                                  |
|                             | -                                                                                                                                         | <b>EMI</b>                        | FCC Class A                                                                                                      |
|                             | <b>MAC Table Size</b>                                                                                                                     | <b>EMS</b>                        | IEC61000-4-2,3,4,5,6,8<br>IEC61000-6-2,4                                                                         |
|                             | 8K                                                                                                                                        | <b>Free Fall</b>                  | IEC60068-2-32                                                                                                    |
|                             | <b>VLAN Group</b>                                                                                                                         | <b>Shock</b>                      | IEC60068-2-27                                                                                                    |
| <b>IGMP Group</b>           | 1 ~ 4094                                                                                                                                  | <b>Vibration</b>                  | IEC60068-2-6                                                                                                     |
|                             | Up to 256 Groups                                                                                                                          | <b>Green</b>                      | RoHS Compliant                                                                                                   |
|                             | <b>Port Interface</b>                                                                                                                     | <b>Certifications</b>             | FCC, CE, UL 61010-1, UL 61010-2-201                                                                              |
|                             | <b>Ethernet RJ45 Port</b>                                                                                                                 | <b>Warranty</b>                   | 5 Years                                                                                                          |
|                             | 6*10/100BaseTx auto negotiation speed, Full/Half duplex mode, and auto MDI connection                                                     |                                   |                                                                                                                  |
| <b>Fiber Ports</b>          | 2*100Fx SC or ST in Single or Multi-Mode                                                                                                  |                                   |                                                                                                                  |
|                             | <b>Wavelength</b>                                                                                                                         |                                   |                                                                                                                  |
|                             | Dependent on Fiber type and Distance                                                                                                      |                                   |                                                                                                                  |
|                             | <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                                                                                                                                 |                                   |                                                                                                                  |
|                             |                                                                                                                                           |                                   |                                                                                                                  |

## ORDERING INFO

|                             |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>LMX-0802-M</b>           | 8-Port Industrial PoE+ Managed Ethernet Switch with 6*10/100Tx + 2*100Fx MM SC Fiber Ports                     |
| <b>LMX-0802-M-T</b>         | 8-Port Industrial PoE+ Managed Ethernet Switch with 6*10/100Tx + 2*100Fx MM SC Fiber Ports ; EOT: -40° to 75°C |
| <b>LMX-0802-ST-M</b>        | 8-Port Industrial PoE+ Managed Ethernet Switch with 6*10/100Tx + 2*100Fx MM ST Fiber Ports                     |
| <b>LMX-0802-ST-M-T</b>      | 8-Port Industrial PoE+ Managed Ethernet Switch with 6*10/100Tx + 2*100Fx MM ST Fiber Ports ; EOT: -40° to 75°C |
| <b>LMX-0802-S3</b>          | 8-Port Industrial PoE+ Managed Ethernet Switch with 6*10/100Tx + 2*100Fx SM SC Fiber Ports                     |
| <b>LMX-0802-S3-T</b>        | 8-Port Industrial PoE+ Managed Ethernet Switch with 6*10/100Tx + 2*100Fx SM SC Fiber Ports ; EOT: -40° to 75°C |
| <b>LMX-0802-ST-S3</b>       | 8-Port Industrial PoE+ Managed Ethernet Switch with 6*10/100Tx + 2*100Fx SM ST Fiber Ports                     |
| <b>LMX-0802-ST-S3-T</b>     | 8-Port Industrial PoE+ Managed Ethernet Switch with 6*10/100Tx + 2*100Fx SM ST Fiber Ports ; EOT: -40° to 75°C |
| <b>Optional Accessories</b> |                                                                                                                |
| <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>SDR-240-48</b>           | 240W 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                              |