

LMX-0800G Series

8-Port Industrial Gigabit Managed Ethernet Switch, with 8*10/100/1000Tx Ports; 12~48VDC Power Input



Features

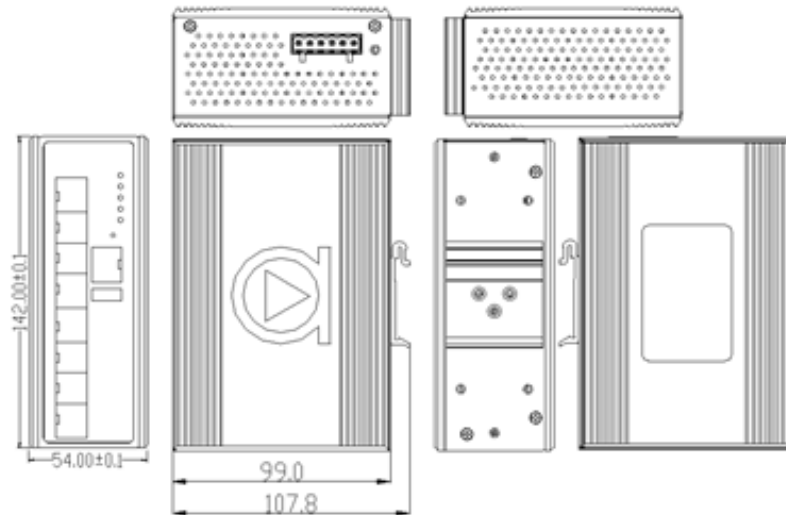
- ▶ Supports 8*10/100/1000Tx RJ45 Ports
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ Configuration: Web Console, Telnet, CLI Command
- ▶ IGMP v1/v2 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 Temperature Range: STD: -10° to 70°C, EOT: -40° to 75°C
- ▶ 5-Year Warranty

INTRODUCTION

Antaira Technologies' LMX-0800G series is an 8-port industrial Gigabit managed Ethernet switch that is embedded with 8*10/100/1000Tx Ethernet ports. The LMX-0800G 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-0800G 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

Technology

IEEE 802.3 10Tx Ethernet
 IEEE 802.3u 100Tx Fast Ethernet
 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

Standards

IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)
 ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch) Protocol
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 IEEE 802.1x for Network Authentication
 IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization

Switch Properties

Protocol 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

Switch Architecture Back-Plane (Switching Fabric): 16.0Gbps

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 9.6K

MAC Table Size 8K

VLAN Group 1 ~ 4094

IGMP Group Up to 256 Group

Port Interface

Ethernet Port 8*10/100BaseTx auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection

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 Protection 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 Indicators Per Unit: Power 1 & 2 (Green), Fault (Green/Red)

Housing Metal, IP30 rated

Dimension 54 x 142 x 99 mm

Weight Unit: 2.4 lbs
 Shipping: 2.9 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°~85°C

Ambient Relative Humidity 5 to 95%, (non-condensing)

Regulatory Approvals

EMI FCC Class A

EMS EN61000-4-2,3,4,5,6,8
 EN61000-6-2,4

Free Fall IEC60068-2-32

Shock IEC60068-2-27

Vibration IEC60068-2-6

Green RoHS Compliant

Certifications FCC, CE, UL 61010-1, UL 61010-2-201

Warranty 5 Years

ORDERING INFO

LMX-0800G	8-Port Industrial Gigabit Managed Ethernet Switch, with 8*10/100/1000Tx Ports; 12~48VDC Power Input
LMX-0800G-T	8-Port Industrial Gigabit Managed Ethernet Switch, with 8*10/100/1000Tx Ports; 12~48VDC Power Input; EOT: -40° to 75°C

Optional Accessories

MDR-60-24	60W Industrial Din Rail Power Supply, 24VDC
MDR-60-48	60W Industrial Din Rail Power Supply, 48VDC
DR-75-48	75W Industrial Din Rail Power Supply, 48VDC
DIN-RACK-2U	DIN-Rail to 19" Rack Mount Adapter for all DIN-Rail Mountable Products, 2U Height