

LMX-0802 Series

INDUSTRIAL MANAGED ETHERNET SWITCH



FEATURES

- Supports 6*10/100BASE-TX and 2*100BASE-FX (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 Email
- 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 – STD: -10°C to 65°C, EOT: -40°C to 75°C
- 5-Year Warranty



INTRODUCTION

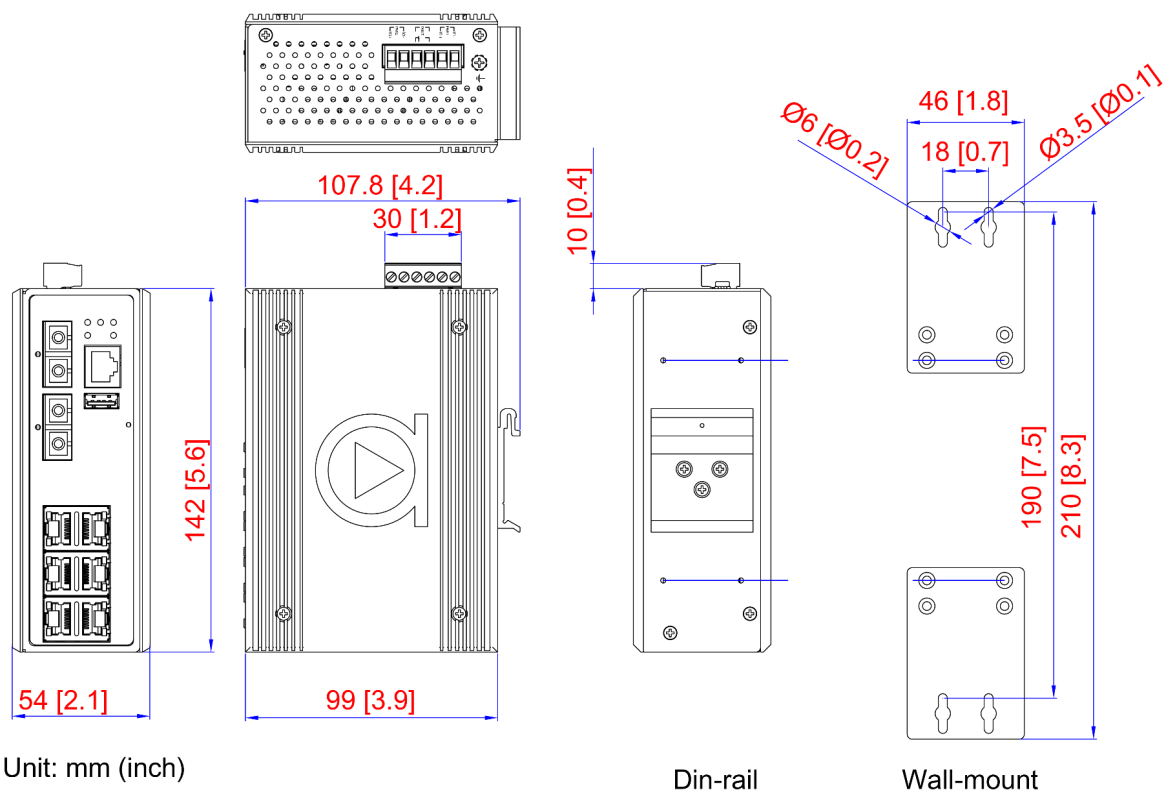
Antaira Technologies' LMX-0802 series is an 8-port industrial managed Ethernet switch that is embedded with 6*10/100BASE-TX Ethernet ports and 2*100BASE-FX fiber ports that support SC or ST connections in either Single or Multi-Mode fiber. The LMX-0802 series is a fully manageable Layer 2 Ethernet switch 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.

SPECIFICATIONS

Hardware Specifications						
Part Number	Total Ports	RJ45	Fiber Port	System Power	Input Voltage	Operating Temp.
LMX-0802-M	10	6	2	15W	12~48VDC	-10 to 65°C 14 to 158°F
LMX-0802-M-T	10	6	2	15W	12~48VDC	-40 to 75°C -40 to 167°F
LMX-0802-ST-M	10	6	2	15W	12~48VDC	-10 to 65°C 14 to 158°F
LMX-0802-ST-M-T	10	6	2	15W	12~48VDC	-40 to 75°C -40 to 167°F
LMX-0802-S3	10	6	2	15W	12~48VDC	-10 to 65°C 14 to 158°F
LMX-0802-S3-T	10	6	2	15W	12~48VDC	-40 to 75°C -40 to 167°F
LMX-0802-ST-S3	10	6	2	15W	12~48VDC	-10 to 65°C 14 to 158°F
LMX-0802-ST-S3-T	10	6	2	15W	12~48VDC	-40 to 75°C -40 to 167°F

Physical Specifications					
Part Number	Dimensions (W x H x D)	Weight (Unit)	Weight (Shipping)	Mounting	Housing
LMX-0802-M LMX-0802-M-T LMX-0802-ST-M LMX-0802-ST-M-T LMX-0802-S3 LMX-0802-S3-T LMX-0802-ST-S3 LMX-0802-ST-S3-T	54 x 142 x 99 mm 2.1 x 5.5 x 3.8in	1.08kg 2.4lb	1.31kg 2.9lb	DIN-Rail Wall Mount	Metal, IP30



Standards

Part Number	IEEE Standards
LMX-0802-M LMX-0802-M-T LMX-0802-ST-M LMX-0802-ST-M-T LMX-0802-S3 LMX-0802-S3-T LMX-0802-ST-S3 LMX-0802-ST-S3-T	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX 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

Switch Properties

Specification		Specification	
Switch Architecture	Back-Plane (Switching Fabric): 1.6Gbps	Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port
Configuration	Web Console, Telnet, CLI	Relay Contact	24VDC, 1A resistive
Processing Type	Store and Forward	Packet Buffer	4 Mbits
Flow Control	IEEE 802.3x for Full Duplex Mode, Back Pressure for Half Duplex Mode	MAC Table Size	8K
VLAN Group	4095	Overload Current Protection	Present
IGMP Group	1024	Reverse Polarity Protection	Present

Key Firmware Features

VLAN	Private VLAN Port-based VLAN IP Subnet-based VLAN GARP/GVRP Guest VLAN	MAC-based VLAN Protocol-based VLAN VLAN Trunking Voice VLAN
Layer 2 Switching	STP MSTP RSTP Port Mirror Loop Guard BPDU Guard	MEP G.8032 ESP v1/v2 Loop Detection LACP Error Disable Recovery
Layer 2 Multicast	IGMPv1/v2/v3 Snooping IGMP Filtering IPMC Filtering Leave Proxy	MLDv1/v2 Snooping IPMC Throttling
Layer 3 Switching	Static Route ARP NAT	
QoS	802.1p Queueing Input Priority Mapping Port/Queue/ACL policer DiffServ (DSCP)	Port Egress Shaper Queue Egress Shaper Tag Remarking Scheduler Mode
Power Saving	ActiPHY PerfectReach IEEE 802.3az EEE power management	
Security	SSHv2 Port-based 802.1X MAC-based Authentication QoS Assignment TACACS+ Web/CLI Authentication Port Security IP Source Guard DHCP Snooping Secure Copy Protocol (SCP)	IP Based Access Filter Access Control List (ACL) ACL for Filtering/Policing/Port Copy VLAN Assignment IP MAC Binding User Privilege (15 levels) RADIUS Authentication and Accounting ARP Inspection Broadcast/Multicast/Unicast Storm Control Secure FTP
Management	IPv4/IPv6 LLDP/LLDP-MED DHCP Client DHCP Server DNS Proxy Syslog Daylight Saving RMON Command Line Interface (CLI) Relay Trigger Telnet Server and Client Dual Image Protection Ping6 DDMI	SMTP SNMP v1/v2c/v3 HTTP/HTTPS DHCPv6 Client DNS Client ICMPv6 Time Zone NTP Client sFlow Power Lost Warning DHCP Option 82 TFTP Ping USB Configuration Backup/Restore Modbus TCP

Compliance Specifications

EMI	FCC Part 15 Subpart B Class A CE EN 55032/EN 61000-6-4 Class A
EMS	CE EN 55035/EN 61000-6-2 Class A: IEC 61000-4-2,3,4,5,6,8
Free Fall	IEC 60068-2-32
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Green	RoHS Compliant

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Safety	CE, FCC, UL 61010-1, UL 61010-2-201
Storage Environment	Storage Temperature: -40 to 85°C
Humidity	Ambient Relative Humidity 5% to 95%, (non-condensing)
Warranty	5 Years

ORDERING INFORMATION

Switch Models

Part Number	Description
LMX-0802-M	8-Port Industrial Managed Ethernet Switch with 6*10/100TX + 2*100FX MM SC Fiber Ports
LMX-0802-M-T	8-Port Industrial Managed Ethernet Switch with 6*10/100TX + 2*100FX MM SC Fiber Ports ; EOT: -40° to 75°C
LMX-0802-ST-M	8-Port Industrial Managed Ethernet Switch with 6*10/100TX + 2*100FX MM ST Fiber Ports
LMX-0802-ST-M-T	8-Port Industrial Managed Ethernet Switch with 6*10/100TX + 2*100FX MM ST Fiber Ports ; EOT: -40° to 75°C
LMX-0802-S3	8-Port Industrial Managed Ethernet Switch with 6*10/100TX + 2*100FX SM SC Fiber Ports
LMX-0802-S3-T	8-Port Industrial Managed Ethernet Switch with 6*10/100TX + 2*100FX SM SC Fiber Ports ; EOT: -40° to 75°C
LMX-0802-ST-S3	8-Port Industrial Managed Ethernet Switch with 6*10/100TX + 2*100FX SM ST Fiber Ports
LMX-0802-ST-S3-T	8-Port Industrial Managed Ethernet Switch with 6*10/100TX + 2*100FX SM ST Fiber Ports ; EOT: -40° to 75°C

Power Supply Options

Part Number	Wattage	Input Voltage	PoE/PoE+ Support	Operating Temperature
HDR-30-24	36W	85-264VAC	Yes, Voltage Adjust 21.6~29VDC	-30~70°C / -22~158°F
HDR-60-24	60W	88-264VAC	Yes, Voltage Adjust 21.6~29VDC	-30~70°C / -22~158°F
MDR-60-24	60W	85-264VAC	Yes, Voltage Adjust 24~30VDC	-20~70°C / -4~158°F
EDR-75-48	75W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~60°C / -4~140°F
NDR-75-48	75W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~70°C / -4~158°F
DR-75-48	75W	85-264VAC	Yes, Voltage Adjust 48~53VDC	-10~60°C / 14~140°F
EDR-120-48	120W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~60°C / -4~140°F
NDR-120-24	120W	90-264VAC	Yes, Voltage Adjust 24~28VDC	-20~70°C / -4~158°F
DR-120-48	120W	88-264VAC	Yes, Voltage Adjust 48~53VDC	-10~60°C / 14~140°F
NDR-240-48	240W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~70°C / -4~158°F
SDR-240-24	240W	88-264VAC	Yes, Voltage Adjust 24~28VDC	-25~70°C / -13~158°F
SDR-240-48	240W	88-264VAC	Yes, Voltage Adjust 48~55VDC	-25~70°C / -13~158°F
NDR-480-48	480W	90-264VAC	Yes, Voltage Adjust 48~55VDC	-20~70°C / -4~158°F

Optional Accessories

DIN-RACK-2U	Din-Rail to 19" Rack Mount Adapter for all Din-Rail Mountable Products, 2U Height
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