

LMX-1600G Series

16-Port Industrial Gigabit Managed Ethernet Switch, with 16*10/100/1000Tx Ports; 12~48VDC Power Input



Features

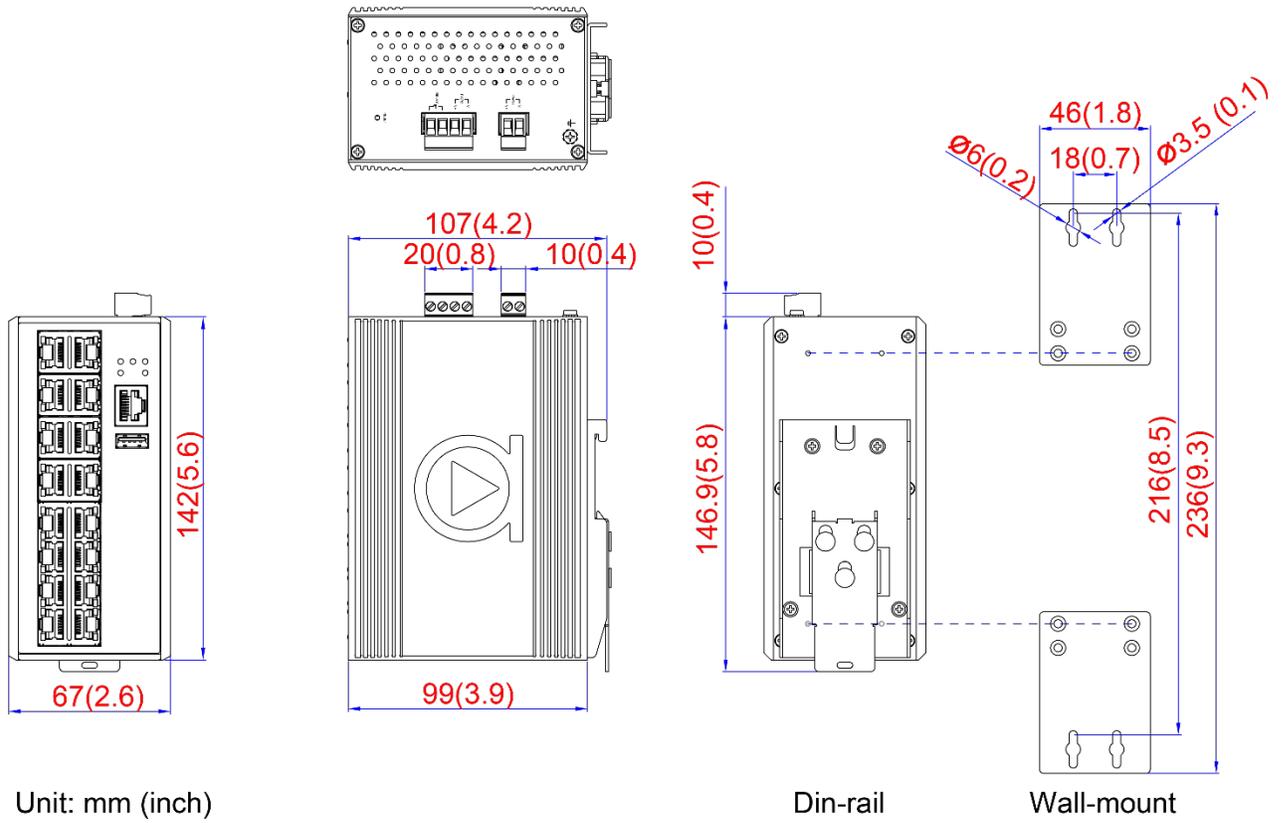
- ▶ Supports 16*10/100/1000Tx RJ45 Ports
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ IGMP v1/v2 for Multicast Traffic Filtering
- ▶ System Warning 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-1600G series is a 16-port industrial Gigabit managed Ethernet switch that is embedded with 16*10/100/1000Tx Ethernet ports. The LMX-1600G series is a fully manageable Layer 3 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-1600G 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 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control for Full Duplex IEEE 802.3ad for Port Trunk with LACP	Protection	
Standards		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	Overload Current Protection	Present
Switch Properties			Power Reverse Polarity	Present (the unit will not be on, if power reverse)
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		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/TIA568 100-ohm (100m)
Switch Architecture	Back-Plane (Switching Fabric): 24.0Gbps		Mechanical Characteristics	
Processing Type	Store and Forward		Housing	Metal, IP30 rated
Flow Control	IEEE 802.3x for full duplex mode, back pressure for half duplex mode 14,880pps for 10Base-T Ethernet		Dimension	67 x 142 x 99 mm
Transfer Rate	148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet		Weight	Unit: 2.65 lbs Shipping: 3.09 lbs
Packet Buffer	4 Mbits		Mounting	DIN-Rail; Wall-mount (optional)
Jumbo Frame	9.6K		Power Requirement	
MAC Table Size	8K		Input Voltage	12~48VDC Redundant Input
VLAN Group	0 ~ 4094		Power Connection	1 removable 4-contact and 2-contact terminal block
IGMP Group	Up to 256 Group		Power Consumption	15 Watts
Port Interface			Environmental Limits	
Ethernet Port	16*10/100BaseTx auto negotiation speed, Full/Half duplex mode, and auto MDI connection		Operating Temperature	STD: -10° to 70°C EOT: -40° to 75°C
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8, N, 1		Storage Temperature	-40°~85°C
Configuration Backup	1*USB 2.0		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 (Pending), UL 61010-2-201 (Pending)
			Warranty	5 Years

ORDERING INFO

LMX-1600G	16-Port Industrial Gigabit Managed Ethernet Switch, with 16*10/100/1000Tx Ports; 12~48VDC Power Input
LMX-1600G-T	16-Port Industrial Gigabit Managed Ethernet Switch, with 16*10/100/1000Tx Ports; 12~48VDC Power Input; EOT: -40°C to 75°C