

LMP-1600G Series

16-Port Industrial Gigabit PoE+ Managed Ethernet Switch, with 16*10/100/1000Tx (30W/Port); 48~55VDC Power Input



Features

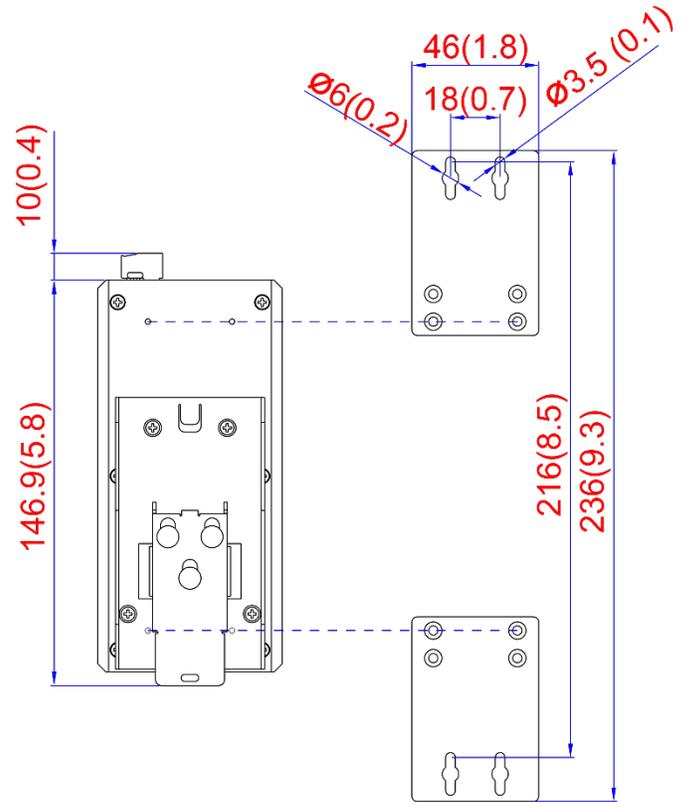
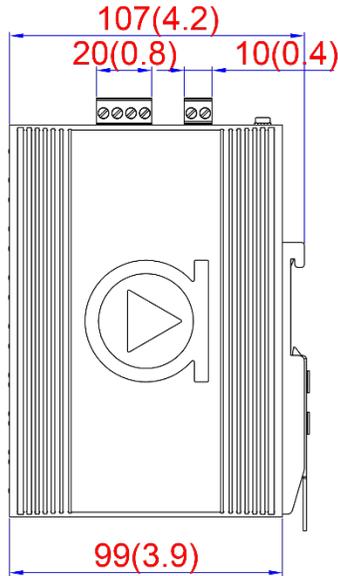
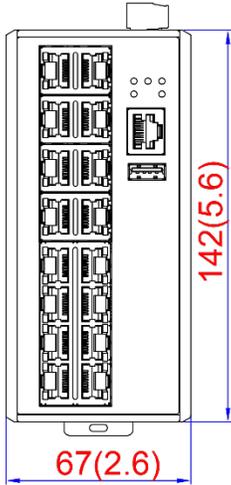
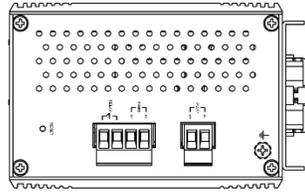
- ▶ Supports 16*10/100/1000Tx Gigabit Ethernet with IEEE 802.3at Compliant PoE+
- ▶ Network Redundancy: STP/RSTP/MSTP, and G.8032 ERPS (Recovery Time <50ms)
- ▶ Supports IPv4/IPv6, and DHCP Option 66/67/82
- ▶ Supports Modbus/TCP Protocol for Device Management and Monitoring
- ▶ IGMP v1/v2 for Multicast 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' LMP-1600G series is a 16-port industrial Gigabit PoE+ managed Ethernet switch that is embedded with 16*10/100/1000Tx Ethernet ports that support IEEE 802.3at/af for a maximum of 30W/port. The LMP-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 LMP-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



Unit: mm (inch)

Din-rail

Wall-mount

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
	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	
Switch Properties	
	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
Protocol	
Switch Architecture	Back-Plane (Switching Fabric): 24.0Gbps
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	0 ~ 4094
IGMP Group	Up to 256 Group
Port Interface	
Ethernet Port	16*10/100BaseTx auto negotiation speed, Full/Half duplex mode, and auto MDI connection
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)
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 (the unit will not be on, if power reverse)
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)
Mechanical Characteristics	
Housing	Metal, IP30 rated
Dimension	67 x 142 x 99 mm
Weight	Unit: 2.65 lbs Shipping: 3.09 lbs
Mounting	DIN-Rail; Wall-mount (optional)
Power Requirement	
Input Voltage	48~55VDC Redundant Input
Power Connection	1 removable 4-contact and 2-contact terminal block
Power Consumption	15 Watts
PoE Power Output	30Watts max. per PoE port
Max. PoE Power Budget	240Watts
Relay Contact	24VDC, 1A resistive
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 (Pending), UL 61010-2-201 (Pending)
Warranty	5 Years

ORDERING INFO

LMP-1600G	16-Port Industrial Gigabit PoE+ Managed Ethernet Switch, with 16*10/100/1000Tx Ports (30W/Port); 48~55VDC Power Input
LMP-1600G-T	16-Port Industrial Gigabit PoE+ Managed Ethernet Switch, with 16*10/100/1000Tx Ports (30W/port); 48~55VDC Power Input; EOT: -40°C to 75°C