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# LMX-1600G-M12-67 Series

16-Port Industrial M12 IP67 Waterproof Gigabit Light Layer 3 Managed Ethernet Switch, with 16\*10/100/1000Tx M12 Connectors (X-Coded); 24~55VDC Power Input

FC

CE

#### Features

- 16-Port 10/100/1000Base-T(X) Ethernet
- Multi-user account for security
- Bypass design for Daisy Chain Redundancy
- Configuration: http, https, CLI Command, Telnet, SNMP, SSH
- Network redundancy support: G.8032 ERPS v2 / STP / RSTP / MSTP
- Supports Static routes for routing function
- Supports RADIUS, TACACS+ authentication protocol
- Supports QoS, LACP bandwidth control
- Supports VLAN, SNMP v1/v2c/v3, ACL, IP source guard for Ethernet security
- Redundant power inputs design
- Operating Temperature Range
  - STD: -10°C to 65°C, EOT: -40°C to 70°C
- **5-Year Warranty**

### INTRODUCTION

**Antaira Technologies' LMX-1600G-M12-67 Series** is a 16-port managed gigabit Ethernet switch, which provides 16\*10/100/1000 Base-T(X). LMX-1600G-M12-67 Series is full manageable light layer 3 Ethernet switch series and supports power inputs redundancy. LMX-1600G-M12-67 Series offers standardized network redundancy ITU-T G.8032 ERPS v2 (Ethernet Ring Protection Switch) protocol, providing <50ms recovery time to the network.

**IP67** 

LMX-1600G-M12-67 Series provides comprehensive network security and management capability by supporting Multi-user account, IGMP, GVRP, VLAN, QoS, SNMP, RADIUS, TACACS+, Aggregation (Static, LACP), SSH, SSL, IP source guard to create a highly-secured network environment. For power saving purpose, assuring PD priority and enhancing security level of the network.

LMX-1600G-M12-67 Series is an M12 IP67 industrial gigabit Ethernet switch that meets the high-reliability requirements demanded by industrial applications. Its M12 connectors ensure a tight and robust connection and it guarantees reliable operation on applications that are subject to high vibration and shock in dust, liquid or gas laden environments. Being able to operate under the standard temperature range from -10°C to 65°C or the extended temperature range from -40°C to 70°C, the LMX-1600G-M12-67 Series can be installed in almost any harsh environment.

#### DIMENSIONS



# **SPECIFICATIONS**

Technology	
L2 Switching	Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2
L3 Switching	DHCP option82, static routes
QoS	802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode
Power Saving	ActiPHY, PerfectReach, IEEE 802.3az EEE power management
Network	STP/RSTP/MSTP, port trunk with LACP, ERPS
Redundancy	v1/v2 (<50ms)
Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3
System / Diagnostics	Dual Image Protection, PING, PING6
Switch Properties	
Switch Architecture	Back-Plane (Switching Fabric): 32Gbps
Priority Queues	8
Processing Type	Store and forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port
Memory Buffer	4Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	32K
VLAN Group	4095
IGMP Group	1024
Port Interface	
Ethernet Port	16*10/100/1000 Base-T(X), 8-pin M12 X-Coded female connectors, auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
RS232 Serial	1*RS232 with M12 5-pin A-coded female
Console	connector
Configuration	1*USB 2.0 with M12 4-pin A-coded female
Backup	connector for configuration backup/restore
DI	1* Digital Input (DI) with M12 5-Pin A-coded male connector: State 0: -30~8VDC / State 1: 10~30VDC, Max. input current: 8mA
Bypass Protection	Ethernet Port 8 and Port 16
LED Indicators	System: Power 1, Power 2, Master, Ring, Status Ethernet ports: Speed/Link/Active

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Protection	
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
Mechanical Chara	cteristics
Housing	Metal, IP67 protection
Dimensions	166.2 x 295 x 101.3 mm (W x H x D)
Weight	Unit: 8.89 lbs. Shipping: 10.49 lbs.
Mounting	Wall mounting
Power Requireme	nt
Input Voltage	24~55VDC Redundant Input
Power Connection	Dual DC power inputs through M12 5-pin K- coded male connector
Relay Contact	24VDC, 1A resistive
Overload Current Protection	Present
Reverse Polarity Protection	Present
System Power Consumption	28W
Environmental Lin	
Operating Temperature	STD: -10°C to 65°C EOT: -40°C to 70°C
Storage Temperature	-40°C to 85°C
Ambient Relative Humidity	5% to 95%, (non-condensing)
Regulatory Approv	
ЕМІ	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2: IEC61000-4-2,3,4,5,6,8
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE
Warranty	5 Years

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## **ORDERING INFO**

LMX-16	600G-M12-67	16-Port Industrial M12 IP67 Waterproof Gigabit Light Layer 3 Managed Ethernet Switch, with 16*10/100/1000Tx M12 Connectors (X-Coded), 24-55VDC Power Input, STD: -10°C to 65°C
LMX-16	600G-M12-67-T	16-Port Industrial M12 IP67 Waterproof Gigabit Light Layer 3 Managed Ethernet Switch, with 16*10/100/1000Tx M12 Connectors (X-Coded), 24-55VDC Power Input, EOT: -40°C to 70°C



<b>Optional Accessories</b>	
CB-M12A5PF-5M	M12 A Code 5P Female to open wire, 5 Meter, Wire: 22 AWG, DI/DO Cable
CB-M12A4PM-USB-5M	M12 A Code 4P Male to USB 2.0 Type-A Female, 5 Meter, Wire: 28 AWG, USB Cable
CB-M12X8PM-RJ45-5M	M12 X Code 8P Male to RJ-45 Socket, 5 Meter, Wire: 26 AWG, Ethernet Cable
CB-M12K5PF-5M	M12 K Code 5P Female to open wire, 5 Meter, Wire: 14 AWG, Power Cable
CB-M12A5PM-DB9-5M	M12 A Code 5P Male to DB9 Female, 5 Meter, Wire: 24 AWG, Console Cable