# LA-IS8M-G1608

16\*1000 Base-X, 8\*10/100/1000Base-T Managed Industrial Ethernet Switch (PoE Optional)



LA-XXX/LAM-XXX Series

For LA-XXX Series



For LA-XXX Series

#### Introduction

This LA-IS8M-G1608 management industrial Ethernet fast switch, providing excellent industrial quality such as high/low temperature resistance, lightning protection, etc., through the design of fanless cooling circuit, wide range working environment temperature, high protection grade and other technologies. Besides, various rich protocols, such as integrated switching and security, support public Ethernet multi-ring protection technology (ERPS), greatly improve network flexibility and enhance the reliability and security of industrial networks.

It can also meet the deployment requirements of rail transit, safe city, intelligent transportation, outdoor monitoring and other harsh environments.

#### **■** Features

■ Input Voltage: DC: 36~75V/AC: 100~240V 50/60Hz ■

■ **Shell:** IP40 protection, fanless design

■ Anti-static: 8KV-15KV

**Operating Temperature:** -40°C ~ +75°C

■ **Test Report:** CCC, RoHS, FC, CE

■ **MTBF:** 100000 Hours



## ■ Specification

Frowider Mode Ports Fixed Port 16*1000 Base-X, 8*10/100/1000Base-T Management Port Support console Power Interface Phoenix terminal, dual power supply redundancy LED Indicators PWR, Link/ACT LED  Cable Type & Transmission Distance Twisted-pair O-100m (CATSe,CAT6) Monomode Optical Fiber 20/40/60/80/100KM  Multimode Optical Fiber 550m  Network Topology Support Star Topology Support Star Topology Support Bus Topology Support  Sus Topology Support Free Topology Support  Tree Topology Support  Hybrid Topology Support  Electrical Specifications Tiput Voltage C36-75V/AC 100-240V 50-60HZ  Total Power Consumption 356W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay 100s  MDX/MIDX Support  Flow Control Support  Support ERPS  Support ERPS  Spanning Tree Support ERPS  Link Aggregation Support  Support IGMP Snooping  Fort Mirroring Support  Fine Control Support  Fine Multicast Support  Fine Multicast Support  Support IGMP Snooping  Fort Mirroring Support  Fine Control Support  Support Interface Counters	PART NO	LA-IS8M-G1608
Management Port Support console Power Interface Phoenix terminal, dual power supply redundancy LED Indicators PWR, Link/ACT LED Cable Type & Transmission Distance Twisted-pair 0-100m (CAT5e,CAT6) Monomode Optical Fiber 20/40/60/80/100KM Multimode Optical Fiber 550m Network Topology Ring Topology Support Star Topology Support Bus Topology Support Tree Topology Support Hybrid Topology Support Support Stectrical Specifications Input Voltage DC36-75V/AC 100-240V 50-60HZ Total Power Consumption 36W Layer 2 Switching Switching Capacity 160G Packet Forwarding Rate 95.23Mpps MAC Address Table 16K VLAN Support 4K Buffer 12M Forwarding Delay <10us MDX/MIDX Support Flow Control Support Support STP/RSTP/MSTP Ring Protocol Support Support Support 12 group Multicast Support Sup	Provider Mode Ports	
Power Interface Phoenix terminal, dual power supply redundancy  LED Indicators PWR, Link/ACT LED  Cable Type & Transmission Distance  Twisted-pair 0-100m (CAT5e,CAT6)  Monomode Optical Fiber 20/40/60/80/100KM  Multimode Optical Fiber 550m  Network Topology  Ring Topology Support  Star Topology Support  Bus Topology Support  Tree Topology Support  Tree Topology Support  Hybrid Topology Support  Electrical Specifications  Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption 436W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay 410us  MDX/MIDX Support  Flow Control Support  Support SUPPORT STP/RSTP/MSTP  Ring Protocol Support ERPS  Link Aggregation Support Support  Multicast Support Support	Fixed Port	16*1000 Base-X, 8*10/100/1000Base-T
LED Indicators PWR, Link/ACT LED  Cable Type & Transmission Distance Twisted-pair 0-100m (CATSe,CAT6)  Monomode Optical Fiber 20/40/60/80/100KM  Multimode Optical Fiber 550m  Network Topology  Ring Topology Support  Star Topology Support  Bus Topology Support  Tree Topology Support  Flectrical Specifications  Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Support ERPS  King Protocol Support ERPS  Link Aggregation Support ERPS  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support Support  Support Support Support Support  Support Support Support Support  Support Support Support Support  Support Support Support  Multicast Support Support  Multicast Support Support  Multicast Support  Support Mirroring Support	Management Port	Support console
Cable Type & Transmission Distance Twisted-pair 0-100m (CATSe,CAT6)  Monomode Optical Fiber 20/40/60/80/100KM  Multimode Optical Fiber 550m  Network Topology  Ring Topology Support  Star Topology Support  Bus Topology Support  Tree Topology Support  Hybrid Topology Support  Electrical Specifications  Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Support Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 1GMP Snooping  Multicast Support  Multicast Support  Support  Support  Support  Support  Support  Support IGMP Snooping  Port Mirroring Support	Power Interface	Phoenix terminal, dual power supply redundancy
Twisted-pair 0-100m (CATSe,CAT6)  Monomode Optical Fiber 550m  Multimode Optical Fiber 550m  Network Topology  Ring Topology Support  Star Topology Support  Bus Topology Support  Tree Topology Support  Hybrid Topology Support  Electrical Specifications  Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame Support EXP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Multicast Support  Support  Support  Support  Support  Support 16MP Snooping  Port Mirroring Support  Support 15MP Snooping  Port Mirroring Support	LED Indicators	PWR, Link/ACT_LED
Multimode Optical Fiber 550m  Network Topology  Ring Topology Support  Star Topology Support  Star Topology Support  Bus Topology Support  Tree Topology Support  Hybrid Topology Support  Electrical Specifications  Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support 12 group  Multicast Support 6MP Snooping  Port Mirroring Support  Storm Control Support  Support  Support  Support  Support  Support  Support  Support Sipport  Support  Support  Support  Support  Support  Support  Support  Support  Support	Cable Type & Transmission Distance	
Multimode Optical Fiber     550m       Network Topology     Support       Star Topology     Support       Bus Topology     Support       Tree Topology     Support       Hybrid Topology     Support       Electrical Specifications     Total Power Consumption       Input Voltage     DC36-75V/AC 100-240V 50-60HZ       Total Power Consumption     <36W	Twisted-pair	0-100m (CAT5e,CAT6)
Network Topology Ring Topology Support Star Topology Support Bus Topology Support Tree Topology Support Hybrid Topology Support Electrical Specifications Input Voltage DC36-75V/AC 100-240V 50-60HZ Total Power Consumption Layer 2 Switching Switching Capacity 160G Packet Forwarding Rate 95.23Mpps MAC Address Table 16K VLAN Support 4K Buffer 12M Forwarding Delay <10us MDX/MIDX Support Flow Control Support ERPS Link Aggregation Support	Monomode Optical Fiber	20/40/60/80/100KM
Ring Topology Support Star Topology Support Bus Topology Support Tree Topology Support Hybrid Topology Support Electrical Specifications Input Voltage DC36-75V/AC 100-240V 50-60HZ Total Power Consumption 36W  Layer 2 Switching Switching Capacity 160G Packet Forwarding Rate 95.23Mpps MAC Address Table 16K VLAN Support 4K Buffer 12M Fonwarding Delay <10us MDX/MIDX Support Flow Control Support Jumbo Frame 10Kbytes Spanning Tree Support STP/RSTP/MSTP Ring Protocol Support I group Multicast Support Multicast Support Storm Control Support Storm Control Support Storm Control Support	Multimode Optical Fiber	550m
Susport  Bus Topology Support  Tree Topology Support  Hybrid Topology Support  Electrical Specifications Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching Switching Capacity 160G Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Support  Support  Support  Flow Control Support  Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support	Network Topology	
Bus Topology Support  Tree Topology Support  Hybrid Topology Support  Electrical Specifications  Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support ERPS  Link Aggregation Support  Multicast Support  Support  Support  Support  Support  Support IGMP Snooping  Port Mirroring Support  Support  Support  Support  Support  Support  Support  Support  Support IGMP Snooping	Ring Topology	Support
Tree Topology Support  Hybrid Topology Support  Electrical Specifications  Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Multicast Support  Support  Support  Support  Support  Support IGMP Snooping  Port Mirroring Support  Support  Support  Support  Support  Support  Support  Support IGMP Snooping  Support	Star Topology	Support
Hybrid Topology Support  Electrical Specifications  Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Support  Support  Support  Support IGMP Snooping  Port Mirroring Support  Support  Support  Support  Support  Support  Support STP/RSTOPIMSTP  Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support  Support Support	Bus Topology	Support
Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Support Support  Multicast Support  Support  Support  Support IGMP Snooping  Port Mirroring Support  Support  Support  Support  Support  Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support  Support Support  Support Support	Tree Topology	Support
Input Voltage DC36-75V/AC 100-240V 50-60HZ  Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Storm Control Support  Support  Support STMP Snooping  Port Mirroring Support  Support  Support  Support  Support  Support  Support Support STMP Snooping  Support Support  Support Support  Support Support  Support Support  Support Support Support  Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support Support  Support Support  Support Support  Support Support  Support	Hybrid Topology	Support
Total Power Consumption <36W  Layer 2 Switching  Switching Capacity 160G  Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Storm Control Support  Support  Support STP/R Snooping  Port Mirroring Support  Support  Support  Support  Support  Support  Support Support  Support Support  Support Support  Support Support  Support Support  Support Support  Support Support  Support Support  Support Support  Support Support  Support Support  Support Support  Support  Support	Electrical Specifications	
Switching Capacity 160G Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Support  Support  Support IGMP Snooping  Port Mirroring Support	Input Voltage	DC36-75V/AC 100-240V 50-60HZ
Switching Capacity 160G Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Support  Support  Support IGMP Snooping  Port Mirroring Support	Total Power Consumption	<36W
Packet Forwarding Rate 95.23Mpps  MAC Address Table 16K  VLAN Support 4K  Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support 12 group  Multicast Support  Support IGMP Snooping  Port Mirroring Support	Layer 2 Switching	
MAC Address Table  VLAN  Support 4K  Buffer  12M  Forwarding Delay  ADDA/MIDX  Support  Flow Control  Support  Jumbo Frame  10Kbytes  Spanning Tree  Support STP/RSTP/MSTP  Ring Protocol  Link Aggregation  Multicast  Support  Support IGMP Snooping  Support	Switching Capacity	160G
VLAN       Support 4K         Buffer       12M         Forwarding Delay       <10us	Packet Forwarding Rate	95.23Mpps
Buffer 12M  Forwarding Delay <10us  MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support ERPS  Link Aggregation Support 12 group  Multicast Support IGMP Snooping  Port Mirroring Support  Storm Control Support	MAC Address Table	16K
Forwarding Delay  **Support Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support ERPS  Link Aggregation Support 12 group  Multicast Support IGMP Snooping  Port Mirroring Support  S	VLAN	Support 4K
MDX/MIDX Support  Flow Control Support  Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support ERPS Link Aggregation Support 12 group  Multicast Support IGMP Snooping  Port Mirroring Support  Support	Buffer	12M
Flow Control  Support  Jumbo Frame  10Kbytes  Spanning Tree  Support STP/RSTP/MSTP  Ring Protocol  Support ERPS  Link Aggregation  Support 12 group  Multicast  Support IGMP Snooping  Port Mirroring  Support  Support  Support	Forwarding Delay	<10us
Jumbo Frame 10Kbytes  Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support ERPS  Link Aggregation Support 12 group  Multicast Support IGMP Snooping  Port Mirroring Support  Storm Control Support	MDX/MIDX	Support
Spanning Tree Support STP/RSTP/MSTP  Ring Protocol Support ERPS  Link Aggregation Support 12 group  Multicast Support IGMP Snooping  Port Mirroring Support  Storm Control Support	Flow Control	Support
Ring Protocol Support ERPS  Link Aggregation Support 12 group  Multicast Support IGMP Snooping  Port Mirroring Support  Storm Control Support	Jumbo Frame	10Kbytes
Link Aggregation  Support 12 group  Multicast  Support IGMP Snooping  Port Mirroring  Support  Storm Control  Support	Spanning Tree	Support STP/RSTP/MSTP
Multicast Support IGMP Snooping  Port Mirroring Support  Storm Control Support	Ring Protocol	Support ERPS
Port Mirroring Support Storm Control Support	Link Aggregation	Support 12 group
Storm Control Support	Multicast	Support IGMP Snooping
Storm Control Support	Port Mirroring	Support
	Interface Counters	Support

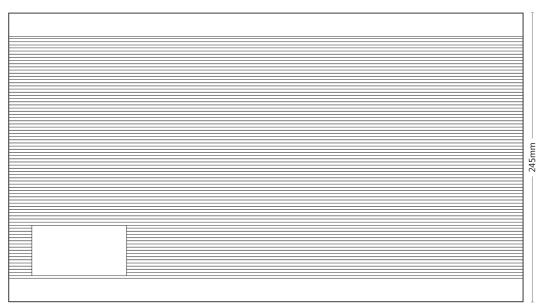


QINQ	Support
802.1X	Support
Radius/Mac Authentication	Support
Layer 3 Route	
Static Route	Support 256 static route
Convergence	
ACL	Support ACL 500 Support IP standard ACL Support MAC expand ACL Support IP expand ACL
QOS	Support QoS re-marking, priority mapping Support SP, WRR queue scheduling Support engress rate-limited, egress rate-limit Support Policy-based QoS
Management	
CLI	Support
Console	Support
Telnet	Support
WEB Management	Support
SNMP	Support SNMPv1/v2c
User Management	Support
System Log	Support
Configuration File Download/Upload	Support
Upgrade Firmware	Support
Environment	
Operating Temperature	-40℃~+75℃
Storage Temperature	-40°C~+75°C
Relative Humidity	5%~95% (non-condensing)
Thermal Methods	Fanless, natural cooling
MTBF	100,000 hours
Mechanical Dimensions	
Product Size	440*245*44mm (W×H×D)
Installation Method	Rack mounted
Weight	3.6KG around
EMC & Ingress Protection	
IP Level	IP40
Surge Protection of Power	IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
Surge Protection of Ethernet Port	IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
RS	IEC 61000-4-3 Level 3 (10V/m)
EFI	IEC 61000-4-4 Level 3 (1V/2V)

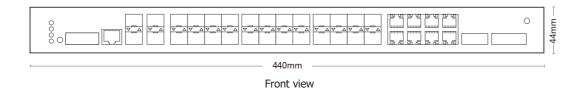


CS	IEC 61000-4-6 Level 3 (10V/m)
PFMF	IEC 61000-4-8 Level4 (30A/m)
DIP	IEC 61000-4-11 Level3 (10V)
EMI	CLASS A
ESD	IEC 61000-4-2 Level 4 (8K/15K)
Free Fall	0.5m
Authentication	
Authentication	CCC/CE/FCC/RoHS

### **■** Dimensions



Rear view



# Ordering Information

PART NO	DESCRIPTION
LA-IS8M-G1608	16*1000 Base-X,8*10/100/1000Base-T
	DC power supply

### Accessories

PART NO	DESCRIPTION
LA-IS8M-G1608	equipment, terminals, power adapter(optional),
	instructions, product certification

