

LA-SWM3-10G0448P-2HAC-L

L3 Managed Switch 48xGE RJ45, 4x10G SFP+

Redundant Hot-swap Power Supply



Overview

LA-SWM3-10G0448P-2HAC-L is a Layer 3 managed Gigabit PoE switch featuring advanced hardware architecture. They support redundant hot-swap AC power supply, which will not affect the normal operation of the switch, specifically designed to handle the demands of high-tech facilities requiring the highest power integrity. The switch also provides fault detection and alarms for power and fans. The fan speed can be automatically adjusted based on temperature changes to better adapt to various environments. The series adopt the front-to-rear airflow to enhance the cooling efficiency. By using overcurrent, overvoltage, and overheating protection technologies, it can achieve device-level and link-level reliability protection.

It delivers full Gigabit access and unparalleled scalability to 10G performance. It provides high-density performance, Layer 3 routing protocol with 336Gbps switching capacity. It provides comprehensive end to end QoS as well as flexible and rich management, security settings, which can meet the high speed, secure and smart requirement for small and medium-size enterprise networks. The powerful network security features also make it perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications. With total power consumption up to **760W(380W +380W)** It offers a rack-mountable, affordable, safe and reliable power solution for SMBs deploying Power over Ethernet networks, or requiring enhanced data security and network traffic management.

Features

- 4*1G/2.5G/10G SFP+ ports uplink, 48*10/100/1000M RJ45 ports downlink, 1*RJ45 console port , 1*OOB port and 1* USB 2.0 port for switch basic management and setup
- Offer 500W + 500W redundant hot-swap power supply, Max PoE power budget 380W + 380W
- Complies with IEEE 802.3at, IEEE802.3af standard. Max output power consumption per port can reach 30W
- Automatic power and fan status monitoring and alarming mechanisms
- Automatic fan speed adjustment based on the change in temperature
- Self-protection mechanisms that protect power supply against overcurrent, overvoltage, and overtemperature conditions
- Layer 3 features: Supports static and dynamic routing, RIP, OSPF, BGP4, ECMP, VRRP
- Port aggregation: Supports GE ports, 2.5GE and 10GE port aggregation, static and dynamic aggregation
- VLAN : Supports access, trunk , hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN
- GVRP: Supports normal mode, fixed mode and forbidden mode
- QinQ: Supports port-based, VLAN-based and flow-based QinQ
- Port Mirroring: Many to one port mirroring
- Layer 2 ring network protocol: Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Multicast: Supports IGMP snooping
- QoS: QoS class, remarking, Supports SP, WRR queue scheduling, Ingress/Engress port-based rate-limit and policy-based QoS
- Security: Support Dot1x, port authentication, mac authentication, RADIUS service; Support port-security, ip source guard, IP/Port/MAC binding, arp-check and ARP packet filtering for illegal users and port isolation
- Management : Supports LLDP, user management and login authentication; SNMPV1/V2C/V3; web management , HTTP1.1, HTTPS; Syslog; RMON (Remote Monitoring) alarm, event and history record; NTP, temperature monitoring; Ping、Tracerout ,optical transceiver DDM and copper port cable detection function; Supports TFTP Client, Telnet Server, Telnet Client, SSH Server and IPv6 management; PoE management
- Firmware update, configure backup/restore through Web GUI, FTP and TFTP

Specifications

Fixed Port	48x10/100/1000Base-T RJ45 4x1G/2.5G/10GBase-X SFP+
Management Port	1xRJ45 console port (115200,8,N,1) 1xUSB 2.0 for configuration and firmware update 1xOOB port for Ethernet management
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z 1000Base-X Ethernet IEEE802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1Q VLAN

ITU-T G.8032 ERPS
 IEEE 802.1X Port Authentication Network Control
 IEEE 802.1ab LLDP
 IEEE 802.3ad LACP
 IEEE 802.3af
 IEEE 802.3at

LED Indicators

PWR (Power Indicator) Off: the device is power off or failed On: the device power on is normal

SYS (System Status Indicator) Blinking: device initialization On: device on normal operation

1-48
 (Copper Ports Indicators) Green
 Off: ports link down
 On: ports link up
 Blinking: data on TX/RX

1-48
 (PoE Status Indicators) Yellow
 Off: PoE not working
 On: PoE working

49-52
 (Fiber Ports Indicators) Green
 Off: ports link down
 On: ports link up
 Blinking: data on TX/RX

Power Parameter

Input Voltage AC100~240V
 Frequency: 50/60Hz

Power Supply Slots 2

Maximum Power Consumption Full loading without PoE \leq 40W
 PoE power budget \leq 380W + 380W

Fans 3xfans, support automatic fan speed adjustments

Over-current Protection Support

Layer 2 Functions

Port Aggregation
 Support Ge Port Aggregation
 Support 2.5Ge Aggregation
 Support 10Ge Aggregation
 Support LACP Dynamic Aggregation
 Up To 64 Aggregation Groups And Up To 8 Ports Per Group

Port Features	<ul style="list-style-type: none"> Support IEEE802.3x Flow Control Support Interface Counters Support Port Isolation Port Mirroring (One-To-One, Many-To-One) Support Loop Detection(Port-Based; Vlan-Based) Support Broadcast Storm Suppression(Broadcast; Unknown Multicast; Unknown Unicast)
MAC Address Table Management	<ul style="list-style-type: none"> Support Static MAC Address Management Support Dynamic MAC Address Management Support Filtering MAC Address Support MAC Limit Based On Port And VLAN Support MAC Flapping Based On Port And VLAN
VLAN	<ul style="list-style-type: none"> Support access mode Support trunk mode Support hybrid mode
VLAN Classification	<ul style="list-style-type: none"> MAC Based VLAN IP Based VLAN Protocol Based VLAN
GVRP	<ul style="list-style-type: none"> Normal mode Fixed mode Forbidden mode
QinQ	<ul style="list-style-type: none"> Port-based QinQ VLAN-based QinQ (VLAN-stacking; VLAN-mapping) Flow-based QinQ
LLDP	LLDP (Link Layer Discovery Protocol)
Ring Network Protocol	<ul style="list-style-type: none"> Support IEEE802.1D-STP Support IEEE802.1W-RSTP Support IEEE802.1S-MSTP Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time ≤ 20ms
L2 Multicast	
IGMP Snooping	Support IGMP snooping
Group Address	Support group address
Security Functions	
ACL	<ul style="list-style-type: none"> IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL

QoS	Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS
802.1x	Port access control Mac-address access control RADIUS server
Port-Security	Port-security
IP Source Guard	IP Port/MAC binding
Arp-Check	Support ARP-check and ARP packet filtering for illegal users
Access Control	Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance Functions	
User Management	Support password protection Support user authorization management
SNMP	Supporting SNMP V1/V2C/V3 version
Web Management	Web Management Support HTTP V1.1 Support HTTPS
CLI Management	Console/Telnet command line management
RMON	Support RMON(Remote Monitoring) alarm
Firmware Upgrade	Firmware upgrade
Fault Detection	Ping/Tracerout Support optical transceiver DDM function
Cable Detection	Support copper port cable detection
PoE Management	Support 802.3af/802.3at Support PD watchdog Support PoE priority management Support Max PoE power configuration for each port Support alarm waterline configuration Support reserved power configuration
NTP	Network Time Protocol
Syslog/Debug	Syslog/Debug Syslog send to three servers
Configuration Import/Export	Support FTP/TFTP remote import/export
Dual Partition Management	Support dual partition switching

Application Protocol Functions

DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82
DHCP Client	Support DHCP client
Telnet Server	Support telnet server
Telnet Client	Support telnet client
SSH Server	Support SSH server
TACACS	Support TACACS (the terminal access controller accesses the control system)
Sflow	Support network traffic analysis
TFTP	Support TFTP Client

Layer 3 Functions

ARP	ARP table aging
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DHCP Server

IPv4 / IPv6	static routing
ECMP	Support ECMP (Equal-cost multi-path routing) Support the configuration of ECMP Max next-hop Support capacity balanced configuration
Route Policy	IPv4 prefix-list
VRRP	Virtual Router Redundancy Protocol

Routing Protocol Specification

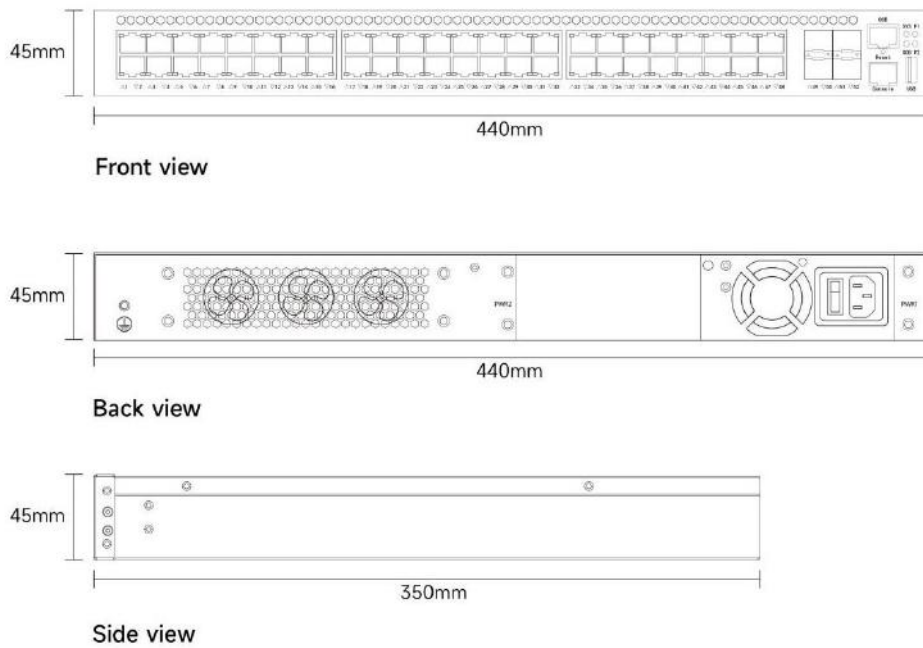
RIP	RIPv1/v2
OSPFv2	OSPFv2
BGP4	BGP4 BGP Support Routing Recursive ECMP Support to view the number of neighbors and up/down state
IS-IS	IS-ISv4
Routing Entry	13K

Switching Features

Switching Capacity	336Gbps
Packet Forwarding Rate	499.9Mpps

MAC Address Table	16K
VLAN	4K
Buffer	12M bit
Forwarding Delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Mechanical Structure	
Installation Method	Desktop; Rack-mount
Dimension(W*D*H)mm	440*350*44mm
Weight	6 kg
Operating Environment	
Operating Temperature	0°C~+ 50°C
Storage/Transportation Temperature	-10°C~+ 70°C
Relative Humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH
Certification	CE/RoHS/FCC
MTBF	> 100,000 hours

Dimension



Ordering Information

P/N	Description
LA-SWM3-10G0448P-2HAC-L	Layer 3 managed PoE switch 4x10G/2.5G/1G SFP+ ports and 48x10/100/1000M RJ45 PoE ports Dual hot-swap AC100~240V power supplies Max PoE power budget 380W+380W



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Specifications & design are subject to change without prior notice.

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