LA-SWM2R-10G04C0816-U-AD-L

Layer 2+ Managed Switch 16x10/100/1000M RJ45, 8x1G Combo, 4x10G SFP+

Overview

LA-SWM2R-10G04C0816-U-AD-L is a Layer 2+ managed Gigabit switch that offers full Gigabit access and unparalleled scalability to 10G performance. With a 128 Gbps switching capacity, it delivers high-density performance and Layer 3 static routing.

This switch provides comprehensive end-to-end QoS and offers flexible, rich management and security settings. It meets the high-speed, secure, and smart requirements for small and medium-sized enterprise networks at a cost-effective price. The robust network security features ensure effective data traffic control for ISPs and enterprise applications, including VoIP, video streaming, and multicast.

Features

- 16x10/100/1000M RJ45, 8x1G Combo, 4x1G/2.5G/10G SFP+, 1*RJ45 console interface for switch basic management and setup
- Power Input DC36-75V + AC100~240V
- Layer 3 features: Supports IPv4/IPv6 static routing, DHCP server
- Port aggregation: Supports GE ports, 2.5GE and 10GE port aggregation, static and dynamic aggregation
- VLAN: Supports access, truck, hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN

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- 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 and alarm grading; RMON (Remote Monitoring) alarm, event and history record; NTP, temperature monitoring; Ping, Tracert and optical transceiver DDM function; Supports TFTP Client, Telnet Server, SSH Server and IPv6 Management
- Firmware update, configure backup/restore through Web GUI, FTP and TFTP

Specifications

Model No.	LA-SWM2R-10G04C0816-U-AD-L
Ethernet	16x10/100/1000M RJ45, 8x1G Combo, 4x1G/2.5G/10G SFP+
Management Port	1xRJ45 Console port (115200, 8, N,1) 1xUSB 2.0 for configuration and firmware update
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
LED Indicators	
P (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
USB (USB Status Indicator)	Off: USB flash drive not insert or not detected by device On: USB flash drive is detected by device Blinking: the device is reading and writing the data from USB flash drive
1-16 (Copper Ports Indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
1-16 (Copper speed indicators) Yellow	Off: ports on 10/100M; On: ports on 1000M
17-24 (Copper Ports Indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
17-24 (Copper speed indicators) Yellow	Off: ports on 10/100M; On: ports on 1000M

17-24 (Fiber Ports Indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX
25-28 (Fiber Ports Indicators) Green	Off: ports link down; On: ports link up; Blinking: data on TX/RX

Power Parameter

Input Voltage	DC36-75V + AC100~240V redundant power input
Total Power Consumption	Full loading≤25W;
Over-Current Protection	Support

Layer 2 Functions

Port Aggregation	Support GE port aggregation Support 2.5GE aggregation Support 10GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group
Port Features	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	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	Support access mode; Support trunk mode; Support hybrid mode
VLAN classification	Mac Based VLAN; IP Based VLAN; Protocol Based VLAN
GVRP	Normal mode; Fixed mode; Forbidden mode
QinQ	Port-based QinQ VLAN-based QinQ (VLAN-stacking; VLAN-mapping) Flow-based QinQ
LLDP	LLDP (Link Layer Discovery Protocol)
Ring Network Protocol	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	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
NTP	Network Time Protocol

Syslog/Debug	Syslog/Debug Syslog sends to three servers
Configuration Import/Export	Support FTP/TFTP remote import/export Support USB 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
Telnet Server	Support
Telnet Client	Support
SSH Server	Support
TACACS	Support (the terminal access controller accesses the control system)
sflow	Support network traffic analysis
TFTP	Support TFTP Client

Layer 3 Functions

ARP	ARP table aging

DHCP Server

IPv4 / IPv6	Static routing

Switching Features

Switching Capacity	128Gbps
Packet Forwarding Rate	190.4Mpps
MAC Address Table	16K
VLAN	4K
Buffer	12Mbit
Forwarding Delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support

Mechanical Structure

Installation Method	Desktop; Rack-mount

Dimension (W x D x H)	440x245x44 mm
Weight	4.0kg
Operating Environment	
Operating Temperature	0℃~+ 50℃
Storage Temperature	-10℃~+ 70℃
Relative Humidity	Operation humidity: 10%-90%RH; Storage humidity: 5%-95%RH
Certification	
Certificates	CE/RoHS/FCC
MTBF	>100,000 hours

Dimension
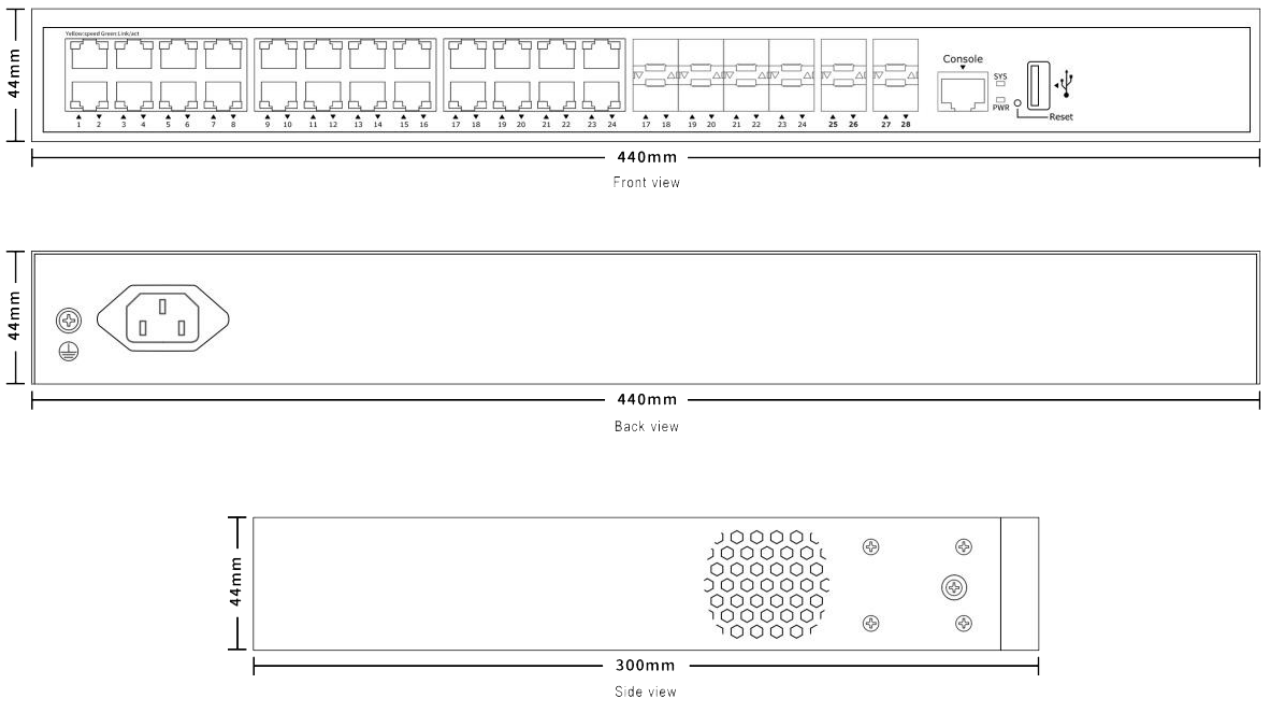
Ordering Information

P/N	Description
LA-SWM2R-10G04C0816-U-AD-L	Layer 2+ Managed Ethernet switch 16x10/100/1000M RJ45 ports, 8x1G Combo, 4x1G/2.5G/10G SFP+ DC36-75V + AC100~240V redundant power input

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