

LA-SWM3-DCFGC0208P

Ethernet PoE switch with 8x10/100M TX ports and 2xGE TX/SFP Combo Ports



Overview

LA-SWM3-DCFGC0208P is a new generation intelligent POE access switch designed for carrier's IP MAN and enterprise networks. Based on the new-generation high-performance hardware and ROS platform, it supports functions such as ACL, QinQ and QoS. Its simple management mode and flexible installation can meet the requirement of any complicated scenarios.

Characteristics

Carrier-Level Ethernet Access Switch

- Support the carrier-level Ethernet- ring protection protocol with less than 50ms recovery time, STP/RSTP/MSTP, backup uplink ports, and LACP link aggregation to cater to the requirements of high reliability of carriers;
- It has powerful ACL functions to access and control L2-L7 data based on physical port, providing carriers flexible and various policy control methods;
- Support In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade;
- Support various L2 multicast functions such as IGMP snooping, fast-leave and MVR to fully meet the operation requirements of carrier' s IPTV.

Intelligent POE+

- Support IEEE 802.3AF/AT POE standard, and power mapping scales up to a maximum of 370W of PoE+ power.
- Support POE non-stop power supply. The PoE+ power is maintained during a switch reload.
- Support manual and dynamic POE power allocation.
- Support up to 2KV thunder-proof of the POE port and power supply.

- Enhanced QoS
- Support priority re-tagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier' s services.
- It provides flexible bandwidth control policies, supporting port-/flow-based flow limit, ensuring the line speed forwarding of each port.
- Support multiple queue schedule algorithms such as SP, WRR and “SP + WRR” .

Security+

- Equipment-level security: The advanced hardware infrastructure design realizes the level- based packet schedule and packet protection, prevents DoS-/TCP- related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions.
- Perfect security authentication mechanisms: IEEE 802.1x, Radius and Tacacs+.
- Support storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions.
- Support perfect ring detection mechanism, ensuring the long-term stable running of network.
- Support port isolation within the same VLAN, DHCP Snooping, and IP + MAC + Port binding.

Easy Management and Maintenance

- Support many management modes such as the CLI, Telnet, SSH, SSL and SNMP.
- Support the WEB management mode, which is easy and efficient for installing and debugging the device.
- Support FTP, TFTP and SFTP. Support ISSU (In-Service Software Upgrade).
- Support SNMP and NMS smart network management platform. The combination realizes automatic equipment discovery, network topology management, equipment configuration management, performance data statistics and analysis and trouble management.
- Support Zero Touch Provisioning (ZTP) function to minimize manual operator intervention and helps reduce customers' initial deployment costs.

Features

VLAN

- 4K Active VLAN
- QinQ & Selective QinQ
- GVRP, Private VLAN, Voice VLAN

Multicast

- IGMP v1/v2/v3
- IGMP Snooping
- IGMP Fast Leave
- MVR, IGMP filter

QoS

- CAR, HQoS, MAC/IP/TCP/UDP/ VLAN/COS/DSCP/TOS based
- QoS,802.1P/DSCP priority re- labeling, SP, WRR, and “SP+WRR”,
- Tail-Drop, WRED, flow monitoring and traffic shaping

Security

- Port isolation, Port security, and "IP + MAC + port" binding MAC
- Sticky DHCP Snooping and option 82, DAI & IP source guard, PPPoE+, Interface backup
- IEEE 802.1x, Radius and Tacacs+
- L2/L3/L4 ACL flow identification and filtration Anti-attack from
- DDoS, TCP's SYN Flood, UDP Flood, etc.
- Broadcast/multicast/unknown unicast storm-control
- MD5, SHA-256, RSA-1024, AES256, etc.

Management

- Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP
- NTP
- ZTP (Zero Touch Provisioning)
- SPAN

Environment

- Operating temperature/ humidity: 0°C -50°C ,10%-90%
- non-condensing
- Storage temperature/humidity:
- -20°C -70°C, 5%-95% non-condensing

IP

- Static route
- 512 routing table
- IPv4/v6 dual stack

Spanning Tree

- 802.1D (STP)
- 802.1W (RSTP) and 802.1S (MSTP)
- BPDU guard, root guard and loopback guard

Reliability

- Static/LACP link aggregation, Interface backup
- EAPS and ERPS
- ISSU

Certification

- CE, FCC, ROHS

Accessories

- Power cord, rack-mount kits, console cable, anti-slipping pad

Specifications

PART NO		LA-SWM3-DCFGC0208P
Interface		8 x 10/100M POE ports, 2 x GE TX/SFP combo ports
Console		1 RJ45 port, 1 RST button
Backplane		5.6Gbps
Forwarding Rate		4.2Mpps
Chassis	Dimensions (W x D x H) (mm)	280x180x44
	Weight (KG) (empty)	1.68
Package	Dimensions (W x D x H) (mm)	370x230x80
	Weight (KG) (empty)	2.5
Power Consumption	No-load	< 7W
	Full-load	142.5W
Power Supply	AC 100V-240V,50Hz±10%	150W
Total Output BTU (1000BTU/H=293W)		511.95
Fan Number		1
Noise@25°C (dBA)		41.5
MTBF(H)		>50,000
Forwarding Mode		Store-forward
Flash (MB)		16
DRAM (MB)		128
MAC		8K
Buffer Size (MB)		4.1
Jumbo Frame		9K
Total SVI		10

Ordering Information

Item	DESCRIPTION
LA-SWM3-DCFGC0208P	Ethernet POE switch with 8x10/100M TX ports and 2xGE uplink ports (1 console port, 8 100M POE ports, 2 GE TX/SFP combo ports, the standard AC220V power supply, 150W, the cooling fan, 1U, desktop installation)

Optical Modules	
100M Optical Modules	
LA-FSFP-SX-1310	100M SFP multi-mode (2Km, 1310nm, LC, DDM)
LA-FSFP-LX-15	100M SFP single-mode (15Km, 1310nm, LC, DDM)
LA-FSFP-LX-40	100M SFP single-mode (40Km, 1310nm, LC, DDM)
LA-FSFP-ZX-80	100M SFP single-mode (80Km, 1550nm, LC, DDM)
LA-FSFP-LX-SM1310-20-BIDI	100M SFP single-mode, single core bidirectional (20Km, TX1310/RX1550, LC, DDM)
LA-FSFP-LX-SM1550-20-BIDI	100M SFP single-mode, single core bidirectional (20Km, TX1550/RX1310, LC, DDM)
LA-FSFP-LX-SM1310-40-BIDI	100M SFP single-mode, single core bidirectional (40Km, TX1310/RX1550, LC, DDM)
LA-FSFP-LX-SM1550-40-BIDI	100M SFP single-mode, single core bidirectional (40Km, TX1550/RX1310, LC, DDM)
LA-FSFP-LX-SM1310-80-BIDI	100M SFP single-mode, single core bidirectional (80Km, TX1310/RX1550, LC, DDM)
LA-FSFP-LX-SM1550-80-BIDI	100M SFP single-mode, single core bidirectional (80Km, TX1550/RX1310, LC, DDM)

GE Optical Modules	
LA-GSFP-TX-B	GE SFP-to- RJ45 module
LA-GSFP-SX-D	GE SFP multi-mode (500m, 850nm, LC, DDM)
LA-GSFP-LX-10-D	GE SFP single-mode (10Km, 1310nm, LC, DDM)
LA-GSFP-LX-20-D	GE SFP single-mode (20Km, 1310nm, LC, DDM)
LA-GSFP-LX-40-D	GE SFP single-mode (40Km, 1310nm, LC, DDM)
LA-GSFP-LX-80-D	GE SFP single-mode (80Km, 1550nm, LC, DDM)
LA-GSFP-LX-120-D	GE SFP single-mode (120Km, 1550nm, LC, DDM)
LA-GSFP-LX-SM1310-10-BIDI	GE SFP single-mode, single core bidirectional (10Km, TX1310/RX1550, LC, DDM)
LA-GSFP-LX-SM1550-10-BIDI	GE SFP single-mode, single core bidirectional (10Km, TX1550/RX1310, LC, DDM)
LA-GSFP-LX-SM1310-20-BIDI	GE SFP single-mode, single core bidirectional (20Km, TX1310/RX1550, LC, DDM)
LA-GSFP-LX-SM1550-20-BIDI	GE SFP single-mode, single core bidirectional (20Km, TX1550/RX1310, LC, DDM)
LA-GSFP-LX-SM1310-40-BIDI	GE SFP single-mode, single core bidirectional (40Km, TX1310/RX1550, LC, DDM)
LA-GSFP-LX-SM1550-40-BIDI	GE SFP single-mode, single core bidirectional (40Km, TX1550/RX1310, LC, DDM)
LA-GSFP-LX-SM1490-80-BIDI	GE SFP single-mode, single core bidirectional (80Km, TX1490/RX1550, LC, DDM)
LA-GSFP-LX-SM1550-80-BIDI	GE SFP single-mode, single core bidirectional (80Km, TX1550/RX1490, LC, DDM)
LA-GSFP-LX-SM1490-120	GE SFP single-mode, single core bidirectional (120Km, TX1490/RX1550, LC, DDM)
LA-GSFP-LX-SM1550-120	GE SFP single-mode, single core bidirectional (120Km, TX1550/RX1490, LC, DDM)