

LA-SWM3-DC10G0416C08

Layer 3 Managed Switch 4x10G SFP+, 16x1G SFP, 8x1G Combo SFP/RJ45

Redundant Internal Power AC100V~240V+DC36-72V



Overview

LA-SWM3-DC10G0416C08 is an Aggregation 10G switch, equipped with 4x10G SFP+, 16x1G SFP, 8x1G Combo SFP/RJ45 ports. It is targeted at the IP MAN (metropolitan area network), government and enterprise networks, Internet café and disk-less working environment. It is developed based on high-performance hardware and a software platform with our own independent intellectual property rights. It supports functions such as powerful ACL, flexible QinQ, 1:1 or N:1 VLAN switching, Ethernet OAM, carrier-level QoS and industry-level 10GE Ether-ring, ensuring this switch series meets application requirements in all kinds of complicated sites. It can support continuous layer-3 routing forwarding, avoiding service interruption as a result of a single point of failure.

The innovative Virtual Cluster Switching technique virtualizes multiple physical devices into one. The performance, reliability and management of the virtual system are superior to the physical ones. It makes full use of each link in the physical devices, which avoids STP blocking the link and protects the original link to the maximum extent. Based on the advanced distribution mechanism and efficient cross-physical link aggregation link function, the logic control plane, service control plane and service data plane are separated.

Features

Industrial Ethernet Ring with Zero Delay and Zero Packet Loss

- Supports industry-level EAPS and their protection shift time is less than 50ms. Their high reliability is represented by the null packet loss, which has been proved by many years of application in the Grid, rail transportation and defense systems.

Telecom-Level Ethernet Switch

- Supports the telecom-level Ethernet-ring protection protocol with a protection shift time of less than 50ms, STP/RSTP/MSTP, backup of active and standby uplinks and LACP link aggregation to cater to the requirements of high reliability of carriers.
- Provides the perfect Ethernet OAM mechanism to monitor the network running status in real time for rapid trouble locating and detection.
- Supports powerful ACL functions to access and control L2-L7 data based on physical port, VLAN, MAC, IP and protocol port ID, and providing carriers flexible and various policy control methods.
- Supports Software Upgrade to ensure unremitting data forwarding during system upgrade.
- Supports various L2 multicast, including IGMP- Snooping, fast-leave, trans-VLAN multicast copy.

Flexible and Convenient Management and Maintenance

- Supports management modes such as the console port, Telnet, SSH, etc.
- Supports the WEB management mode, which is easy and efficient so that it makes installation and debugging convenient.
- Supports TFTP-patterned file upload/download management.
- Supports ISSU (In-Service Software Upgrade).
- Support SNMP and NMS smart network management platform to realize automatic equipment discovery, network topology management, equipment configuration management, performance data statistics and analysis and trouble management.

Carrier-Level QoS Policies

- Supports priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority to better streamline carrier's services.
- Supports provides flexible bandwidth control policies and supports port-/flow-based flow limit and ensuring line speed forwarding of each port to make sure high quality of video, audio and data services.
- Supports 8 priority queues by each port.
- Supports multiple queue schedule algorithms such as SP, WRR, or "P plus WRR"

Versatile IPv6 Solutions

- Supports the IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, etc.
- Supports Ping, Traceroute, Telnet, SSH, ACL and so like on the basis of IPv6, meeting IPv6 networks' equipment management requirements and service control requirements.

Perfect Security Mechanisms

- 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.

- Supports perfect security authentication mechanisms: IEEE 802.1x, Radius and Tacacs+.
- Supports storm/multicast/unicast limit to ensure the normal running of equipment in harsh network conditions.
- Supports a perfect ring detection mechanism to ensure the long-term stable running of network.
- Supports port isolation within the same VLAN, DHCP-Snooping, and IP plus MAC plus Port binding for ensuring user data security.

Specifications

Interface	16×100/1000M SFP, 8×GE SFP/TX combo, 4×10 GE/GE SFP+
Console	1xRJ45 console
Backplane	128Gbps
Forwarding Rate	96 Mpps
Stackable Number	16
Chassis Dimension (WxDxH)	440x280x44mm
Chassis Weight	4KG
Package Dimension (WxDxH)	576x448x94mm
Package Weight	5.2KG
Power Consumption (No-load)	<18W
Power Consumption (Ful-load)	<38W
Power Supply (AC100-240V/DC36-72V)	45W
Total output BTU (1000BTU/H=293W)	153.58
Fan Number	2
Noise@25°C (dBA)	45
MTBF(H)	>200,000
Forwarding Mode	Store-forward
Flash (MB)	16
DRAM (MB)	256
MAC	32K
Buffer Size (MB)	1.5
Interface VLAN	64
Routing Table	512
Jumbo Frame	9K

VLAN	4K Active VLAN, QinQ & Selective QinQ, GVRP, Private VLAN, Voice VLAN
Spanning Tree	802.1D (STP) 802.1W (RSTP) and 802.1S (MSTP) BPDU guard, root guard and loopback guard
Multicast	IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter
IP	Static route, RIP, OSPF, IPv4/v6 dual stack
IPv6	ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet, IPv6 neighbor discovery, Path MTU discovery, MLD v1/2, MLD snooping.
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 DAI & IP source guard, PPPoE+, 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.
DHCP	DHCP server/relay/client, DHCP snooping/option82
Reliability	Static/LACP link aggregation, Interface backup EAPS and ERPS, ISSU uninterrupted system upgrade, ups to 16-units per stack, VRRP, UDLD
Management	Console, Telnet, SSH v1/2, HTTP/HTTPS SNMP v1/v2/v3, RMON TFTP, FTP, SFTP NTP, ZTP (Zero Touch Provisioning), SPAN, RSPAN, Dying gasp
Accessories	Power cord, rack-mount kits, console cable
Environment	Operating temperature/humidity: 0°C-50°C, 10%-90% non-condensing Storage temperature/humidity: -20°C-70°C, 5%-95% non-condensing
Certification	CE, FCC, ROHS

Ordering Information

PART NO	DESCRIPTION
LA-SWM3-DC10G0416C08	Layer3 Lite Stackable Managed Switch 16xGigabit SFP, 4x10G SFP+, 8x1G Combo SFP/TX ports. 1xConsole port, with cooling fan Internal Power AC100~240V + DC36-72V
Optical Modules	
10GE Optical Modules	
LA-OT-10GT-RJ	10GE SFP+-to-RJ45 module
LA-OT-10GMM8-03	10GE SFP+ multi-mode, 300m, 850nm, LC, DDM
LA-OT-10G3-10	10GE SFP+ single-mode, 10km, 1310nm, LC, DDM
LA-OT-10G3-20	10GE SFP+ single-mode, 20km, 1310nm, LC, DDM
LA-OT-10G3-40	10GE SFP+ single-mode, 40km, 1310nm, LC, DDM
LA-OT-10G5-80	10GE SFP+ single-mode, 80km, 1550nm, LC, DDM
LA-OT-10GBD23-10	10GE SFP+ Bidi, 10km, Tx1270/Rx1330, LC, DDM
LA-OT-10GBD32-10	10GE SFP+ Bidi, 10km, Tx1330/Rx1270, LC, DDM
LA-OT-10GBD23-20	10GE SFP+ Bidi, 20km, Tx1270/Rx1330, LC, DDM
LA-OT-10GBD32-20	10GE SFP+ Bidi, 20km, Tx1330/Rx1270, LC, DDM
LA-OT-10GBD23-40	10GE SFP+ Bidi, 40km, Tx1270/Rx1330, LC, DDM
LA-OT-10GBD32-40	10GE SFP+ Bidi, 40km, Tx1330/Rx1270, LC, DDM
Gigabit Optical Modules	
LA-OT-GTA-RJ45	10/100/1000Mb Base-T, RJ45 Copper
LA--OT-GMM8-05	Gigabit SFP multi-mode, 500m, 850nm, LC, DDM
LA-OT-G3-10	Gigabit SFP single mode, 10km, 1310nm, LC, DDM
LA-OT-G3-20	Gigabit SFP single mode, 20km, 1310nm, LC, DDM
LA-OT-G3-40	Gigabit SFP single mode, 40Km, 1310nm, LC, DDM
LA-OT-G5-80	Gigabit SFP single mode, 80km, 1550nm, LC, DDM
LA-OT-G5-120	Gigabit SFP single mode, 120km, 1550nm, LC, DDM
LA-OT-GBD35-10	Gigabit SFP Bidi, 10km, Tx1310/Rx1550, LC, DDM
LA-OT-GBD53-10	Gigabit SFP Bidi, 10km, Tx1550/Rx1310, LC, DDM
LA-OT-GBD35-20	Gigabit SFP Bidi, 20km, Tx1310/Rx1550, LC, DDM
LA-OT-GBD53-20	Gigabit SFP Bidi, 20km, Tx1550/Rx1310, LC, DDM
LA-OT-GBD35-40	Gigabit SFP Bidi, 40km, Tx1310/Rx1550, LC, DDM
LA-OT-GBD53-40	Gigabit SFP Bidi, 40km, Tx1550/Rx1310, LC, DDM
LA-OT-GBD45-80	Gigabit SFP Bidi, 80km, Tx1490/Rx1550, LC, DDM
LA-OT-GBD54-80	Gigabit SFP Bidi, 80km, Tx1550/Rx1490, LC, DDM
LA-OT-GBD45-120	Gigabit SFP Bidi, 120km, Tx1490/Rx1550, LC, DDM
LA-OT-GBD54-120	Gigabit SFP Bidi, 120km, Tx1550/Rx1490, LC, DDM



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Specifications & design are subject to change without prior notice.

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