LA-SWM7-DCS2510-C

Managed Ethernet Switch with 8×GE TX ports,2×100/1000M SFP ports

Highlight Information ▶▶▶▶

Supports Maximum 24 GE TX Ports and 4 GE SFP Uplink Ports

Advanced Hardware Architecture and Industry-leading Port Density

Carrier-Level High Reliability Layer-3 Routing Function

Varied Service Characteristics Versatile IPv6 Solution Complete Security Mechanism

▍ Introduction

LA-SWM7-DCS2510-C is a new-generation intelligent gigabit access switch designed for carrier's IP MAN and enterprise networks. Based on the new-generation high-performance hardware and BDROS platform,supports functions such as ACL, QinQ and QoS. Its simple management mode and flexible installation can meet requirement of any complicated scenarios.

Carrier-Level Ethernet Access Switch

- 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;

- Has powerful ACL functions to access and control L2-L7 data based on physical port, providing carriers flexible and various policy control methods;

- In-Service Software Series supports In-Service Software forwarding during system upgrade;

- Various L2 multicast functions such as IGMP-snooping, fast-leave and MVR to fully meet the operation requirements of carrier's IPTV.

Comprehensive IPv6 Solutions

- The IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6 and Path MTU discovery.

- Ping, Traceroute, Telnet, SSH and ACL on the basis of IPv6, meeting IPv6 networks' equipment management requirements and service control requirements;

Enhanced QoS

- Priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier's services.

- Flexible bandwidth control policies, supporting port-/flow-based flow limit ensuring the line speed forwarding of each port.

- 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 BDTacacs+.

- Storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions.

- Perfect ring detection mechanism, ensuring the long-term stable running of network.

- Port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding.

Easy Management and Maintenance

- Many management modes such as the CLI, Telnet, SSH, SSL and SNMP.

- The WEB management mode, which is easy and efficient for installing and debugging the device.

- Supports FTP,TFTP and SFTP.

- ISSU (In-Service Software Upgrade).

- SNMP and BDCOM 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.

- 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

- **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, 512 routing table, IPv4/v6 dual stack

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

- **Reliability** : Static/LACP link aggregation, Interface backup EAPS and ERPS ISSU .

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

- **Accessories** : Power cord, rackmount kits, console cable, anti-slipping pad .

- **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

Application
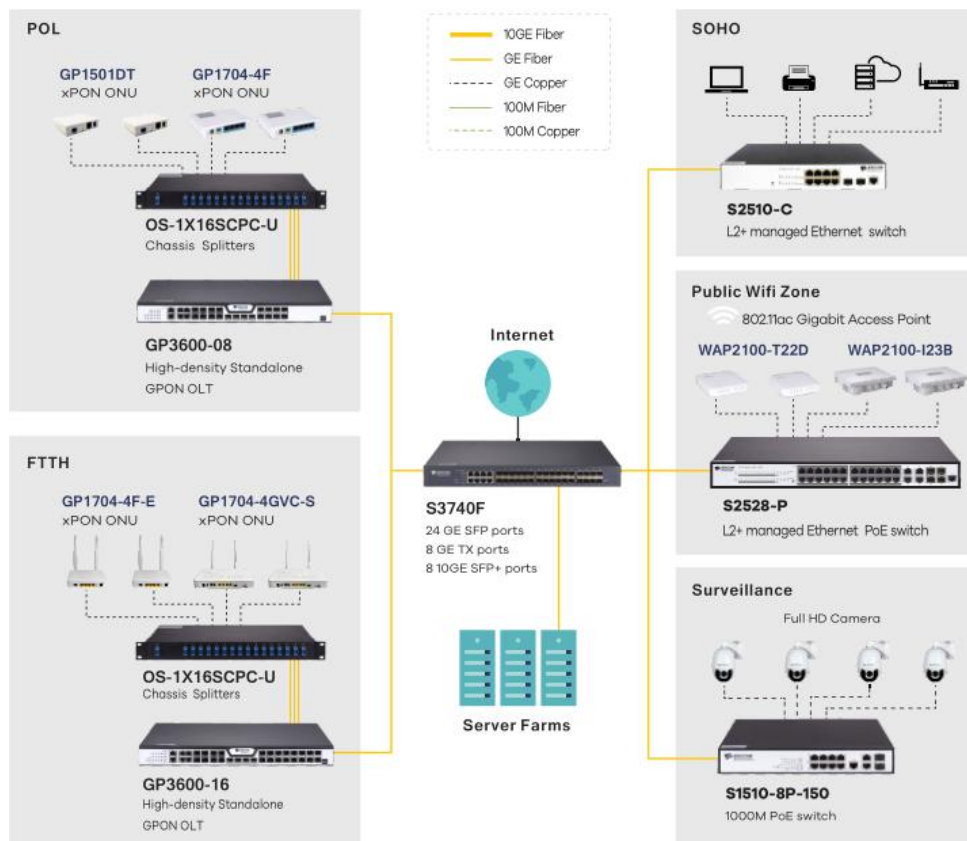
▊ Specification

PART NO	LA-SWM7-DCS2510-C
Interface	8×GE TX ports, 2×100/1000M SFP
Console	1 RJ45 port, 1 RST button
Backplane	20 Gbps
Forwarding rate	15 Mpps
Total output BTU (1000BTU/H=293W)	51.19
Fan number	no
Noise@25°C(dBA)	0
MTBF(H)	>50,000
Forwarding mode	Store-forward
Flash (MB)	16
DRAM (MB)	128
MAC	4K
Buffer size(MB)	4.1
Jumbo frame	9K
Total SVI	10
Power supply	AC:100V-240V,50Hz±10% 15W
Power consumption	
No-load	<3W
Full-load	10W
Chassis	
Dimensions(WxDxH)(mm)	280x180x44
Weight(KG)(empty)	1.55
Package	
Dimensions(WxDxH)(mm)	346x289x92
Weight(KG)	2.55

▊ Ordering Information

PART NO	DESCRIPTION
LA-SWM7-DCS2510-C	Ethernet switch with 8 GE TX ports and 2 GE SFP ports (1 console port, 8 GE TX ports, 2 100/1000M SFP ports, 1 standard AC220V power supply, fanless, 1U, desktop installation)

Optical Modules	
100M Optical Modules	
LA-SFP-SX-1310	100M SFP multi-mode (2Km, 1310nm, LC, DDM)
LA-SFP-LX-15	100M SFP single-mode (15Km, 1310nm, LC, DDM)
LA-SFP-LX-40	100M SFP single-mode (40Km, 1310nm, LC, DDM)
LA-SFP-ZX-80	100M SFP single-mode (80Km, 1550nm, LC, DDM)
LA-SFP-LX-SM1310/1550-20BIDI	100M SFP single-mode, single fiber (20Km, TX1310/RX1550, LC, DDM) 100M SFP single-mode, single fiber (20Km, TX1550/RX1310, LC, DDM)
LA-SFP-LX-SM1310/1550-40BIDI	100M SFP single-mode, single fiber (40Km, TX1310/RX1550, LC, DDM) 100M SFP single-mode, single fiber (40Km, TX1550/RX1310, LC, DDM)
LA-SFP-LX-SM1310/1550-80BIDI	100M SFP single-mode, single fiber (80Km, TX1310/RX1550, LC, DDM) 100M SFP single-mode, single fiber (80Km, TX1550/RX1310, LC, DDM)
GE Optical Modules	
GSFP-TX-B	GE-SFP-to-RJ45 module
GSFP-SX-D	GE SFP multi-mode(500m,850nm,LC,DDM)
GSFP-LX-10-D	GE SFP single-mode(10Km,1310nm,LC,DDM)
GSFP-LX-20-D	GE SFP single-mode (40Km, 1310nm, LC, DDM
GSFP-LX-40-D	GE SFP single-mode (40Km, 1310nm, LC, DDM)
GSFP-ZX-80-D	GE SFP single-mode (80Km, 1550nm, LC, DDM)
GSFP-ZX-120-D	GE SFP single-mode (120Km, 1550nm, LC, DDM
GSFP-LX-SM1310/1550-10BIDI	GE SFP single-mode, single fiber (10Km, TX1310/RX1550, LC, DDM) GE SFP single-mode, single fiber (10Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310/1550-20BIDI	GE SFP single-mode, single fiber (20Km, TX1310/RX1550, LC, DDM) GE SFP single-mode, single fiber (20Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310/1550-40BIDI	GE SFP single-mode, single fiber (40Km, TX1310/RX1550, LC, DDM) GE SFP single-mode, single fiber (40Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1490/1550-80BIDI	GE SFP single-mode, single fiber (80Km, TX1490/RX1550, LC, DDM) GE SFP single-mode, single fiber (80Km, TX1550/RX1490, LC, DDM)
GSFP-LX-SM1490/1550-120	GE SFP single-mode, single fiber (120Km, TX1490/RX1550, LC, DDM) GE SFP single-mode, single fiber (120Km, TX1550/RX1490, LC, DDM)