S4600-SI Series
L2 Gigabit Access Switch

Product Overview

DCN S4600-SI series are full GbE standalone switches provide enterprise-class access for campus and branch applications. These fully managed switches can provide advanced Layer 2 features as well as optional Power over Ethernet Plus (PoE+) power. it integrates advanced management and security functions to provide performance and scalability. It is ideal solution for enterprise and carrier access network deployment

Appearance	Description
S4600-10P-SI	● 8x10/100/1000Base-T+2x100/1000Base-X (SFP) ● 1 console, 1 reset port ● AC power supply ● Switching capacity: 20Gbps ● Forwarding rate: 14.88Mpps
S4600-10P-P-SI	● 8x10/100/1000Base-T+2x100/1000Base-X (SFP) ● 1 console, 1 reset port ● PoE+, up to 124w ● AC power supply ● Switching capacity: 20Gbps ● Forwarding rate: 14.88Mpps
S4600-52P-SI	● 48x10/100/1000Base-T+4x100/1000Base-X (SFP) ● 1 console, 1 reset port ● AC power supply ● Switching capacity: 104Gbps ● Forwarding rate: 77.4Mpps

Key Features and Highlights

Green Energy

S4600-SI series complies with **IEEE 802.3az** (Energy-Efficient Ethernet) standard, dramatically lower power consumption

With the **Innovative port-LED Shut-off** function, the user can automatically set the switch port-LED UP or DOWN at a specified period according to their needs to achieve functional, energy-saving correct results.

A full account of low noise requirements of the environment, S4600-SI uses **Fanless Design and Smart fan** strategies to real-time temperature monitoring system, and reduce the noise pollution.

Enhanced Security

S4600-SI series provides a variety of security mechanisms like SYN Flood, Land, ICMP Flood attack prevention and other DOS class technology, BPDU Guard and Root Guard which avoid accidental topology loops and prevent illegal edge devices become root to cause unnecessary flapping.

IEEE **802.1X** port-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server.

Access Control Lists (**ACL**s) can be used to restrict access to sensitive network resources by denying packets and forward by different policies. User-defined ACL provides more flexible access control for users.

S4600-SI series support **DHCP snooping**, which prevents DHCP attacks and illegal DHCP SERVER by setting trust ports and untrusted ports. With DHCP Snooping binding and option82 enabled, it can combine modules like dot1x and ARP, or implement user-access-control independently.

S4600-SI series supports many more L2 security features such as **ARP guard**, **Anti-ARP scanning**, and other ARP and **MAC Security** technology to protect network security and reliability.

High Reliability

S4600-SI series support 4 Gigabit uplink ports, which could be designed to offer redundant uplinks with various ring protection applications, effectively raised the expansibility and performance of the network.

G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in a carrier ring topology. S4600-SI series support G.8032 v2 and can be deployed in a variety of complex network topologies including single ring, tangent ring, intersecting rings, double rings, and other home networking.

Abundant Multicast Features

S4600-SI series also support **MVR** (Multicast VLAN Register), selectively allows traffic to cross between different VLANs for bandwidth and security reasons. With the MVR Trunk function, which could associate multicast VLAN to trunk port, the S4600-SI series combines the VLAN data into the same link, saving lots of resources for users.

S4600-SI series could prevent multicast traffic from flooding via IGMP Snooping, while multicast traffic is only forwarded to ports associated with multicast devices.

Product Specifications

Item	S4600-52P-SI	S4600-10P-P-SI	S4600-10P-SI
Ports	48 x 10/100/1000Base-T + 4 x 100/1000Base-X (SFP) Auto-MIDX	8 x 10/100/1000Base-T + 2 x 100/1000Base-X (SFP) Auto-MIDX	8 x 10/100/1000Base-T + 2 x 100/1000Base-X (SFP) Auto-MIDX
Performance			
Switching Capacity	104Gbps	20Gbps	20Gbps
Forwarding Rate	77.4Mpps	14.88Mpps	14.88Mpps
MAC ADDRESS	16K	8K	8K
Jumbo Frame	12K	10K	10K
ACL Table	2048	1408	1408
Queues per port	8	8	8
VLAN TABLE	4K	4K	4K

Item	S4600-52P-SI	S4600-10P-P-SI	S4600-10P-SI
Physical			
Dimension(W×H×D)	442mm x 220mm x 43.6mm	340mm x 43.6mm x 200mm	220mm x 160mm x 44.3mm
Power Input	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz
Power Consumption	40W	144W	7W
Cooling	Active	Passive	Passive
Temperature	Working 0°C~50°C, Storage -40°C~70°C		
Relative Humidity	5%~95%, non-condensing		
EMC Safety	CE, RoHS		
POE	NA	IEEE 802.3af POE (15.4W) IEEE 802.3at POE+ (30W) PoE output 124w	NA
Main Features			
Forwarding	Storage and Forwarding		
VLAN	Port-based VLAN, IEEE802.1Q, private VLAN, Protocol VLAN, Voice VLAN, MAC VLAN Normal QinQ, Selective QinQ, Flexible QinQ VLAN Translation, N:1 VLAN Translation		
DHCP	IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Relay Option 82, Option 37/38 IPv4/IPv6 DHCP Snooping, IPv4/IPv6 DHCP Server		
Reliability / **Spanning Tree**	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard, BPDU Guard, BPDU Forwarding		
Reliability / **LACP**	16 groups / 8 ports	8 groups / 8 ports	
Reliability / **L2 Ring Protection**	MRPP ITU-T G.8032 Loopback Detection Fast Link		
Security	IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL Time Range ACL ACL rules can be configured to port, VLAN Storm Control based on packets and bytes Port Security, MAC Limit based on VLAN and Port Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding ND Snooping DAI IEEE 802.1x Authentication, Authorization, Accounting Radius, TACACS+		
Multicast	IGMP v1/v2/v3 snooping, IGMP Fast leave MVR MLD v1/v2 snooping IPv4/IPv6 DCSCM		
QoS	8 Queues Per Port Bandwidth Control Flow Redirect Classification based on ACL, VLAN ID, COS, TOS, DSCP, Policing Based on Port and VLAN Single Rate single barrel double color for Policing Remark DSCP, COS/802.1p, Precedence, TOS SP, WRR, SWRR, WDRR for Scheduling Match the IP fragmentation of a message		
Maintenance and	TFTP/FTP		

Item	S4600-52P-SI	S4600-10P-P-SI	S4600-10P-SI
Operation Management	CLI, Telnet, Console, Reset Web/SSL (IPv4/IPv6) SSH (IPv4/IPv6) SNMPv1/v2c/v3 SNMP Trap Public & Private MIB interface RMON 1,2,3,9 Ping, Trace Route Radius Authentication Syslog (IPv4/IPv6) SNTP/NTP (IPv4/IPv6) Dual IMG, Multiple Configuration Files Port Mirror, CPU Mirror, RSPAN sFlow (S4600-28P/52P-SI) OAM EFM VCT, DDM ULDP (like Cisco UDLD) LLDP/LLDP MED		
Green Energy	IEEE 802.3az (Energy Efficient Ethernet) Fanless (10P and 28P) LED Shut-off		

Typical Application

S4600 Series switch is deployed as Gigabit access in a Campus / ISP network

S4600 Series POE switch supports Access points, cameras and other PE devices
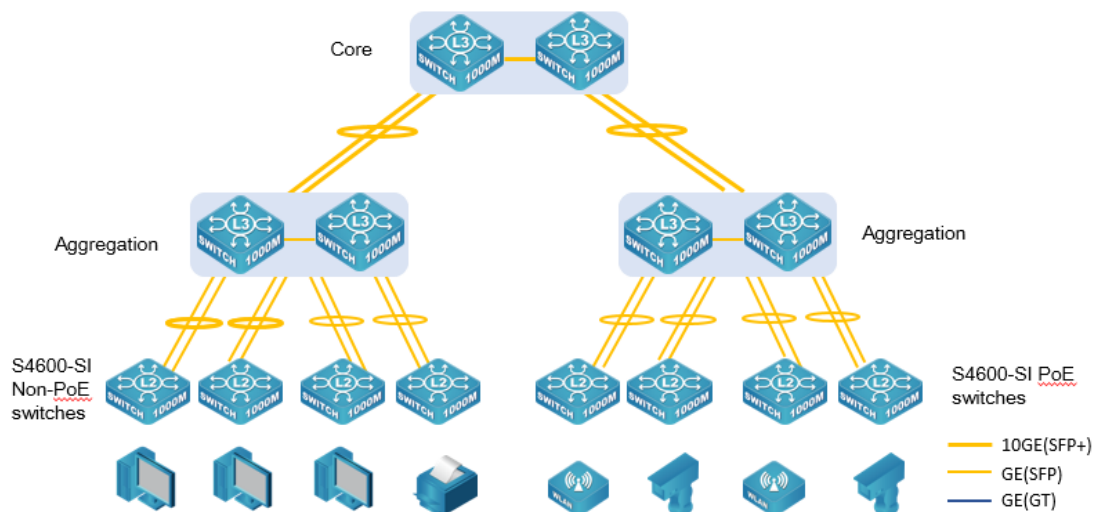
Order Information

Product	Description
S4600-52P-SI	L2 Gigabit Intelligent Ethernet Switch with 48 10/100/1000Base-T and 4 100/1000Base-SFP ports, 100-240VAC Power Input
S4600-10P-SI	L2 Gigabit Intelligent Ethernet Switch with 8 10/100/1000Base-T and 2 100/1000Base-SFP ports, 100-240VAC Power Input
S4600-10P-P-SI	L2 Gigabit Intelligent Ethernet PoE Switch with 8*10/100/1000Base-T and 2*100/1000Base-SFP ports, 100-240VAC Power Input. 30w POE+ Supported. PoE output 124w