

S4600-SI Series L2 Gigabits Dual Stack Intelligent Switch Datasheet

Product Overview

S4600-SI Series is L2 Gigabits intelligent switch designed for carrier and MAN networks. It supports comprehensive QoS, enhanced VLAN functions (VLAN VPN, Voice VLAN, QinQ, N:1 VLAN Translation etc), Ethernet Ring Protection Protocol (G.8032), classified bandwidth control, intelligent security control, OAM(Operations, Administration and Maintenance), manageability functions and Triple-Play services which fulfill the network requirements demanded by carrier network, MAN access. S4600-SI Series switch offers green features like IEEE 802.3az (Energy Efficient Ethernet), Fan-less design feature, which can dramatically lower power consumption, achieve green energy and save the cost for the carrier and MAN users.

S4600-SI Series have 6 types including **S4600-10P-SI**, **S4600-28P-SI**, **S4600-52P-SI**, **S4600-10P-P-SI**, **S4600-28P-P-SI**, **S4600-28P-PL-SI**. Equipped with the full GE ports and 4 SFP(2 SFP) uplink ports, the series integrates advanced management and security functions to provide performance and scalability.

Main Features

Green Energy

- S4600-SI series comply with IEEE 802.3az (Energy-Efficient Ethernet) standard, dramatically lower power consumption
- With Innovative port-LED Shut-off function, the user can automatically set the switch port-LED UP
 or DOWN at a specified time period according to their needs to achieve functional, energy-saving
 correct results.
- 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.

Simple and Flexible Operation and Maintenance

Full Ethernet OAM technology (IEEE802.3ah/802.1ag*), VCT, DDM (Digital Diagnostic Monitoring)
and other features achieve rapid detection of the network failures; reduce operation and maintenance
difficulty.

Enhanced Security

- S4600-SI series provide 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 (ACLs) 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 untrust 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 support much 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 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.

High adaptability VLAN Features

- S4600-SI series support 802.1Q and port based VLAN as well as MAC based VLAN, Voice VLAN and Protocol VLAN.
- Abundant QinQ technology including Normal QinQ, Selective QinQ, and Flexible QinQ, gives
 users maximum freedom to configure QinQ policy.
- N:1 VLAN Translation feature can translate multiple VLAN tags in the frames from access ports into
 one specified VLAN Tag. It provides a strong technical support for QoS policy convergence.

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 MVR Trunk function, which could associate multicast VLAN to trunk port, 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 to multicast devices.

Specifications

◆ PoE models of S4600 series



Item		S4600-28P-P-SI	S4600-28P-PL-SI	S4600-10P-P-SI
Ports		24 x 10/100/1000Base-T + 4	24 x 10/100/1000Base-T + 4	8 x 10/100/1000Base-T + 2 x
		x 100/1000Base-X (SFP)	x 100/1000Base-X (SFP)	100/1000Base-X (SFP)
Performan	се			
Switching Capacity		56Gbps	56Gbps	20Gbps
Forwarding	g Rate	41.7Mpps	41.7Mpps	14.88Mpps
MAC ADDI	RESS	16K	16K	8K
Jumbo Fra	me	12K	12K	10K
ACL Table		2048	2048	1408
Queues pe	er port	8	8	8
VLAN TAB	LE	4K	4K	4K
Physical			<u> </u>	
Dimension	(W×H×D)	442mm x 43.6mm x 280mm	442mm x 43.6mm x 280mm	330mm x 43.6mm x 230mm
weight		5.3kg	4.9kg	3.5kg
Power Inpu	ut	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz
Power Con	sumption	390W	205W	144W
Cooling		Active	Active	Passive
Temperature		Working 0°C~50°C, Storage -40°C~70°C		
Relative Humidity		5%~95%,non-condensing		
EMC Safet	ty		CE, RoHS	
		IEEE 802.3af POE(15.4W)	IEEE 802.3af POE(15.4W)	IEEE 802.3af POE(15.4W)
		IEEE 802.3at POE+ (30W)	IEEE 802.3at POE+ (30W)	IEEE 802.3at POE+ (30W)
		PoE output 370w	PoE output 185w	PoE output 124w
Main Featu	ıres			
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		
	LACP	16 groups / 8 ports		8 groups / 8 ports
	L2 Ring	MRPP		
	Protection	ITU-T G.8032		
		Loopback Detection		
		Fast Link		
Security		IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL		



Item	S4600-28P-P-SI	S4600-28P-PL-SI	S4600-10P-P-SI	
	Time Range ACL			
	ACL on VLAN interface			
	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, IGM	IP 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 V	LAN		
	Single Rate single barrel doul	ole color for Policing		
	Remark DSCP, COS/802.1p,	Precedence, TOS		
	SP, WRR, SWRR, DWRR for	Scheduling		
	Match the IP fragmentation of	message		
Maintenance and	TFTP/FTP			
Operation Management	CLI, Telnet, Console			
	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 Configurat	ion Files		
	Port Mirror, CPU Mirror, RSPA	AN		
	sFlow (S4600-28P/52P-SI)			
	OAM EFM			



Item	S4600-28P-P-SI	S4600-28P-PL-SI	S4600-10P-P-SI
	VCT, DDM		
	ULDP(like Cisco UDLD)		
	LLDP/LLDP MED		
Green Energy	IEEE 802.3az (Energy Efficier	nt Ethernet)	
	Fanless (10P and 28P)		
	LED Shut-off		

Non-PoE models of S4600 series

Item		S4600-52P-SI	S4600-28P-SI	S4600-10P-SI	
Ports		48 x 10/100/1000Base-T + 4	24 x 10/100/1000Base-T + 4	8 x 10/100/1000Base-T + 2 x	
		x 100/1000Base-X (SFP)	x 100/1000Base-X (SFP)	100/1000Base-X (SFP)	
Performand	е				
Switching Capacity		104Gbps	56Gbps	20Gbps	
Forwarding	Rate	77.4Mpps	41.7Mpps	14.88Mpps	
MAC ADDF	RESS	16K	16K	8K	
Jumbo Fran	me	12K	12K	10K	
ACL Table		2048	2048	1408	
Queues pe	r port	8	8	8	
VLAN TAB	LE	4K	4K	4K	
Physical					
Dimension((W×H×D)	442mm x 220mm x 43.6mm	442mm x 220mm x 43.6mm	250mm x 180mm x 43.6mm	
weight		4.7kg	2.42kg	1.1kg	
Power Inpu	t	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz	
Power Consumption		40W	20W	20W	
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			
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, 8	802.1S MSTP		
		Root Guard, BPDU Guard, BF	PDU Forwarding		



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LACP		16 groups / 8 ports		8 groups / 8 ports	
	L2 Ring	MRPP			
Protection		ITU-T G.8032			
		Loopback Detection			
		Fast Link			
Security		IP ACL, MAC ACL, MAC-IP AG	CL, User-Defined ACL		
		Time Range ACL			
		ACL on VLAN interface			
		Storm Control based on packet	ets and bytes		
		Port Security, MAC Limit base	d 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, IGM	P Fast leave		
		MVR			
		MLD v1/v2 snooping			
		IPv4/IPv6 DCSCM			
QoS		8 Queues Per Port			
		Bandwidth Control			
		Flow Redirect			
		Classification based on ACL, \	/LAN ID, COS, TOS, DSCP,		
		Policing Based on Port and VI	_AN		
		Single Rate single barrel doub	le color for Policing		
		Remark DSCP, COS/802.1p, I	Precedence, TOS		
		SP, WRR, SWRR, DWRR for	Scheduling		
		Match the IP fragmentation of	message		
Maintenand	e and	TFTP/FTP			
Operation Management		CLI, Telnet, Console			
		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			



Item	S4600-52P-SI	S4600-28P-SI	S4600-10P-SI		
	Syslog (IPv4/IPv6)	Syslog (IPv4/IPv6)			
	SNTP/NTP (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				

Ordering 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
S4600-28P-SI	L2 Gigabit Intelligent Ethernet Switch with 24 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
	L2 Gigabit Intelligent Ethernet PoE Switch with 8*10/100/1000Base-T and
S4600-10P-P-SI	2*100/1000Base-SFP ports, 100-240VAC Power Input. 30w POE+ Supported. PoE output
	124w
	L2 Gigabit Intelligent Ethernet PoE Switch with 24*10/100/1000Base-T and
S4600-28P-P-SI	4*100/1000Base-SFP ports, 100-240VAC Power Input. 30w POE+ Supported. PoE output
	370w
	L2 Gigabit Intelligent Ethernet PoE Switch with 48*10/100/1000Base-T and
S4600-28P-PL-SI	4*100/1000Base-SFP ports, 100-240VAC Power Input. 30w POE+ Supported. PoE output
	185w

Contact us

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