

S5500 SERIES SWITCHES

DATASHEET

High Performance Enterprise and Campus Network Switch

Version:V1.3

Release Date:2025/12/25

Product Overview

The S5500 Series switches designed on a domestic new generation switch Chip, which called [VastLakes Series Chip platform](#) . With 48 x 1G or 24 x 1G high speed ports and rich features, these switches will perfectly meets the requirements of Metro, Enterprise and campus networks.



Key features of the S5500 Series Switches

- Support MPLS Features
- Varied port types support 100M/1G/25G/40G ports to meet different network requirement
- Implementing Vxlan and BGP protocols to build EVPN applications for Enterprise and Campus scenario.
- Switch-to-switch encryption using MACsec (Media Access Control Security) AES-CMAC.
- Precision Timing Protocol.
- Rich L2/L3 features like IPv6, OSPF, BGP, PIM, etc.

The S5500 Series switches provide various power supply solutions for customers choosing, fixed single power supply, fixed redundant power supplies, and redundant hot-swappable power supplies (AC and DC are both available). The Fan solutions also have two bays with Field replaceable fan modules and build in fans. Generally, air flow of S5500 Series is front to rear (AFO), and some of models can do customization of rear to front (AFI) airflow.

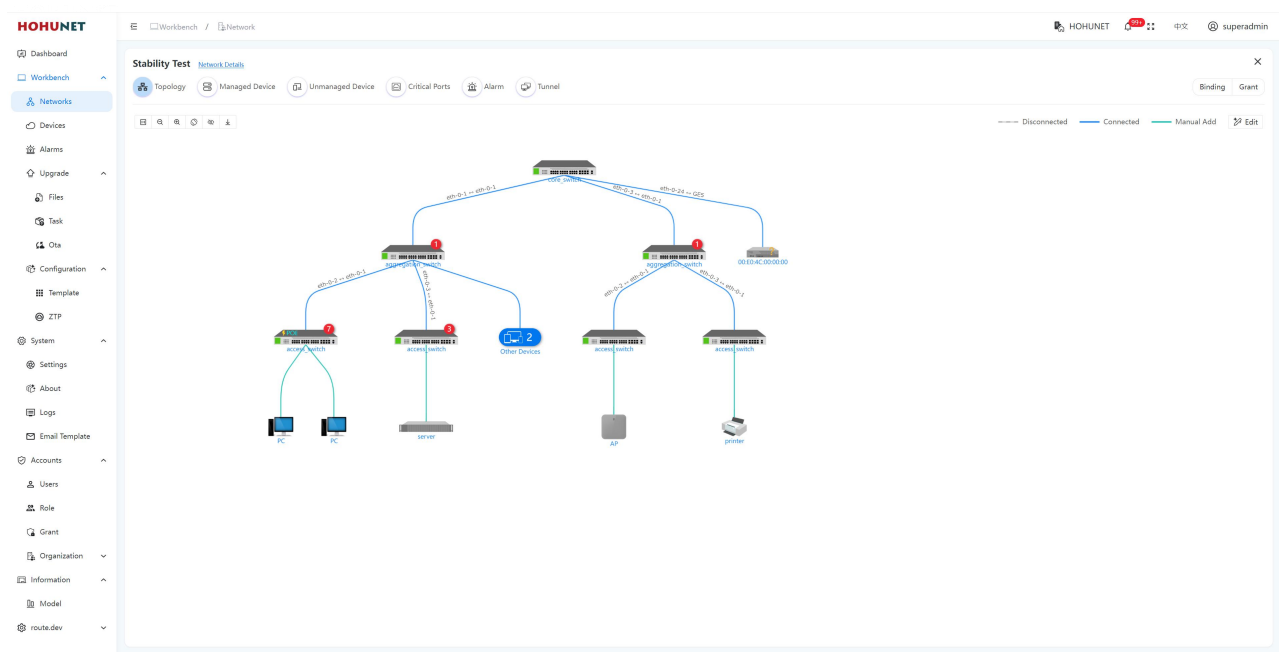
Table 1: Feasible PSU and airflow of S5500 Series

Items	AC	DC	PoE Port	AFO	AFI	Power Input	FAN
S5548PB-2Q4X-EI	○	○	48	○	X	2	2

Items	AC	DC	PoE Ports	AFO	AFI	Power Input	FAN
S5548P-2Q4X-SI	○	X	48	○	X	1	4
S5548P-2Q4X-EI	○	○	48	○	X	2	2
S5548-2Q4X-SI	○	X	0	○	X	1	4
S5548-2Q4X-EI	○	○	0	○	○	2	2
S5524PB-2Q4X-EI	○	○	24	○	○	2	2
S5524P-2Q4X-SI	○	X	24	○	X	1	4
S5524-2Q4X-SI	○	X	0	○	X	1	4
S5524-2Q4X-EI	○	○	0	○	○	2	2

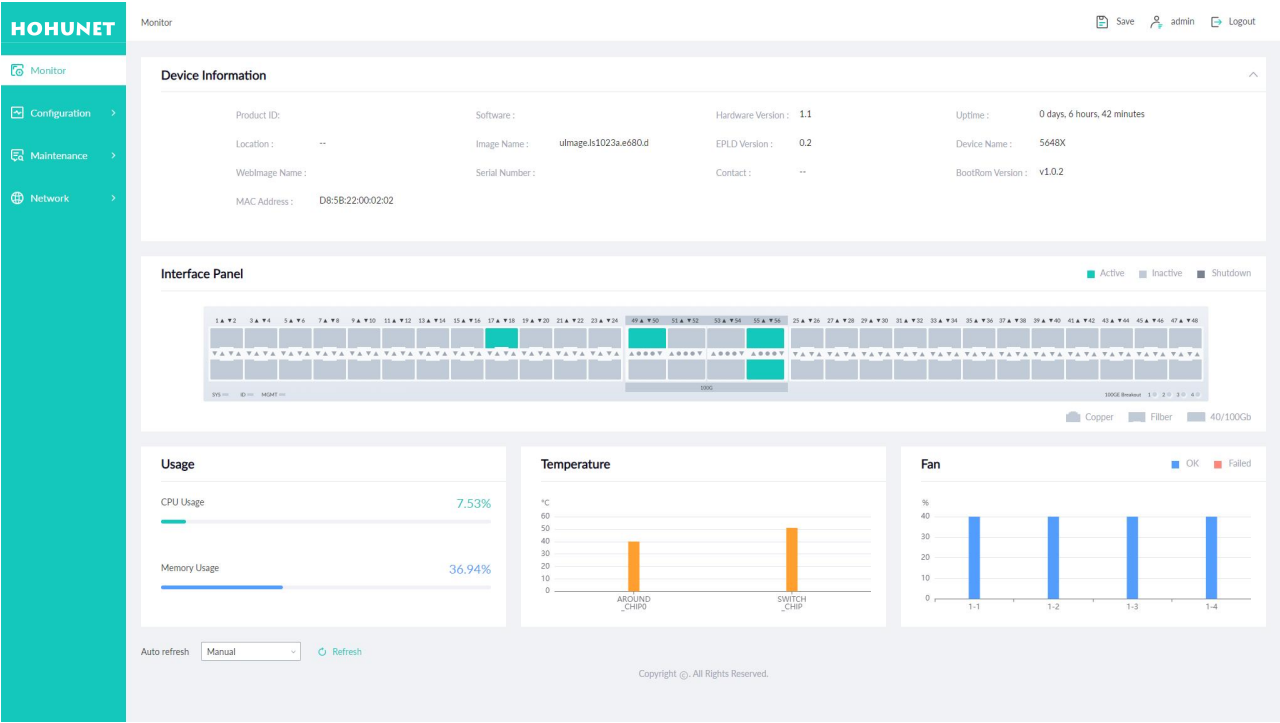
The S5500 Series switches support varied management ways, include console port / in-band network ports / out-of-band network port. Support SNMP v1/v2/v3, Support CLI (Command Line Interface), web management, Telnet and FTP connection. Support OAM to make management more convenient, and support SSH2.0, SSL, etc. to ensure security of management.

Moreover, leveraging its profound technical expertise and in-depth understanding of campus and enterprise networking needs, Hohunet has launched the Da Hu Cloud Management System (DHCS). It enhances network management and maintenance efficiency, reduces costs, elevates management intelligence, and delivers a faster, smarter, more secure and reliable network to better meet user requirements.



Visual WEB GUI

HOS allows you to quickly configure common configuration items using a visual WEB GUI, which lowers the application threshold for users.



The S5500 family of Ethernet switches consists of the following models:

Models	Ethernet Ports	Management	PSU 1/PSU 2	Cooling
S5548PB-2Q4X-EI	48 x 10/100/1000Mb BaseT(PoE++ 90W) + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	1200W AC/1200W AC hot-swappable Modules	2 x hot-swappable Fan Modules (Front to Rear airflow)
S5548P-2Q4X-SI	48 x 10/100/1000Mb BaseT(PoE+ 30W) + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	Fixed one power supply	4 x fixed Fans (Front to Rear airflow)
S5548P-2Q4X-EI	48 x 10/100/1000Mb BaseT(PoE+ 30W) + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	500W AC/500W AC hot-swappable Modules	2 x hot-swappable Fan Modules (Front to Rear airflow)
S5548-2Q4X-SI	48 x 10/100/1000Mb BaseT + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	Fixed one power supply	4 x fixed Fans (Front to Rear airflow)

Models	Ethernet Ports	Management	PSU 1/PSU 2	Cooling
S5548-2Q4X-EI	48 x 10/100/1000Mb BaseT + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	120W AC/120W AC hot-swappable Modules	2 x hot-swappable Fan Modules (Front to Rear airflow)
S5524PB-2Q4X-EI	24 x 10/100/1000Mb BaseT(PoE++ 90W) + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	500W AC/500W AC hot-swappable Modules	2 x hot-swappable Fan Modules (Front to Rear airflow)
S5524P-2Q4X-SI	24 x 10/100/1000Mb BaseT(PoE+ 30W) + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	Fixed one power supply	4 x fixed Fans (Front to Rear airflow)
S5524-2Q4X-EI	24 x 10/100/1000Mb BaseT + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	120W AC/120W AC hot-swappable Modules	2 x hot-swappable Fan Modules (Front to Rear airflow)
S5524-2Q4X-SI	24 x 10/100/1000Mb BaseT + 4 x 25G SFP28 + 2 x 40G QSFP+	Console: RJ45 RS232 Ethernet: 1G Port	Fixed one power supply	4 x fixed Fans (Front to Rear airflow)

S5500 Physical Specifications

Package Switch capacity (Gbps)

- S5548PB-2Q4X-EI: 456Gbps (bidirectional)
- S5548P-2Q4X-SI: 456Gbps (bidirectional)
- S5548P-2Q4X-EI: 456Gbps (bidirectional)
- S5548-2Q4X-SI: 456Gbps (bidirectional)
- S5548-2Q4X-EI: 456Gbps (bidirectional)
- S5524PB-2Q4X-EI: 408Gbps(bidirectional)
- S5524P-2Q4X-SI: 408Gbps(bidirectional)
- S5524-2Q4X-SI: 408Gbps(bidirectional)
- S5524-2Q4X-EI: 408Gbps(bidirectional)

Layer 2/Layer 3 Throughput (Mpps)

- S5548PB-2Q4X-EI: 678.53Mpps (bidirectional)
- S5548P-2Q4X-SI: 678.53Mpps (bidirectional)
- S5548P-2Q4X-EI: 678.53Mpps (bidirectional)
- S5548-2Q4X-SI: 678.53Mpps (bidirectional)
- S5548-2Q4X-EI: 678.53Mpps (bidirectional)
- S5524PB-2Q4X-EI: 607.10Mpps (bidirectional)
- S5524P-2Q4X-SI: 607.10Mpps (bidirectional)
- S5524-2Q4X-SI: 607.10Mpps (bidirectional)
- S5524-2Q4X-EI: 607.10Mpps (bidirectional)

Weight (Net Weight/Gross Weight)

- S5548PB-2Q4X-EI: 8.36/10.6kg
- S5548P-2Q4X-SI: 5.38/7.62kg
- S5548P-2Q4X-EI: 7.76/10kg
- S5548-2Q4X-SI: 4.09/6.33kg
- S5548-2Q4X-EI: 7.16/9kg
- S5524PB-2Q4X-EI: 7.36/9.6kg
- S5524P-2Q4X-SI: 6.96/9.2kg
- S5524-2Q4X-SI: 3.9/6.14kg
- S5524-2Q4X-EI: 6.67/9kg

Dimensions (W x H x D) with package

- S5548PB-2Q4X-EI: 55.7 x 15 x 49.5cm
- S5548P-2Q4X-SI: 55.7 x 15 x 49.5cm
- S5548P-2Q4X-EI: 55.7 x 15 x 49.5cm
- S5548-2Q4X-SI: 55.7 x 15 x 49.5cm
- S5548-2Q4X-EI: 55.7 x 15 x 49.5cm
- S5524PB-2Q4X-EI: 55.7 x 15 x 49.5cm
- S5524P-2Q4X-SI: 55.7 x 15 x 49.5cm
- S5524-2Q4X-SI: 55.7 x 15 x 49.5cm
- S5524-2Q4X-EI: 55.7 x 15 x 49.5cm

Dimensions (W x H x D) without package

- S5548PB-2Q4X-EI: 44.2x 4.4 x 42cm
- S5548P-2Q4X-SI: 44.2 x 4.4 x 32.1cm
- S5548P-2Q4X-EI: 44.2 x 4.4 x 41cm
- S5548-2Q4X-SI: 44.2 x 4.4 x 32.1cm
- S5548-2Q4X-EI: 44.2 x 4.4 x 41cm
- S5524PB-2Q4X-EI: 44.2 x 4.4 x 41cm
- S5524P-2Q4X-SI: 44.2 x 4.4 x 37.1cm
- S5524-2Q4X-SI: 44.2 x 4.4 x 32cm
- S5524-2Q4X-EI: 44.2 x 4.4 x 41cm

Cooling [CFM]-Total Maximum airflow

- S5548PB-2Q4X-EI: 72.78
- S5548P-2Q4X-SI: 44.30
- S5548P-2Q4X-EI: 78.28
- S5548-2Q4X-SI: 46.48
- S5548-2Q4X-EI: 46.48
- S5524PB-2Q4X-EI: 75.27
- S5524P-2Q4X-SI: 46.48
- S5524-2Q4X-SI: 46.48
- S5524-2Q4X-EI: 46.48

Power consumption

Worst case, all ports used, line-rate traffic

- S5548PB-2Q4X-EI: 72W
- S5548P-2Q4X-SI: 86W
- S5548P-2Q4X-EI: 70W
- S5548-2Q4X-SI: 72W
- S5548-2Q4X-EI: 60W
- S5524PB-2Q4X-EI: 54W
- S5524P-2Q4X-SI: 70W
- S5524-2Q4X-SI: 51W
- S5524-2Q4X-EI: 60W

Typical power consumption

- S5548PB-2Q4X-EI: 61W
- S5548P-2Q4X-SI: 84W
- S5548P-2Q4X-EI: 58W
- S5548-2Q4X-SI: 69W
- S5548-2Q4X-EI: 59W
- S5524PB-2Q4X-EI: 53W
- S5524P-2Q4X-SI: 69W
- S5524-2Q4X-SI: 51W
- S5524-2Q4X-EI: 36W

CPU

- Dual-core processor, ARM A53 on all models

Memory

- eMMC: 8GB on all models
- DRAM: 2GB on all models

Environmental ranges

- Operating temperature: 0°C to 40°C
- Storage temperature: -40°C to 70°C
- Running Humidity: 10% to 90% (No condensation)
- Store Humidity: 5 to 95% (No condensation)

Operating altitude

- S5548PB-2Q4X-EI: ≤5000m
- S5548P-2Q4X-SI: ≤5000m
- S5548P-2Q4X-EI: ≤5000m
- S5548-2Q4X-SI: ≤2000m
- S5548-2Q4X-EI: ≤5000m
- S5524PB-2Q4X-EI: ≤5000m
- S5524P-2Q4X-SI: ≤5000m
- S5524-2Q4X-SI: ≤2000m
- S5524-2Q4X-EI: ≤5000m

Temperature alarm

- Alarm threshold: 50°C

MTBF

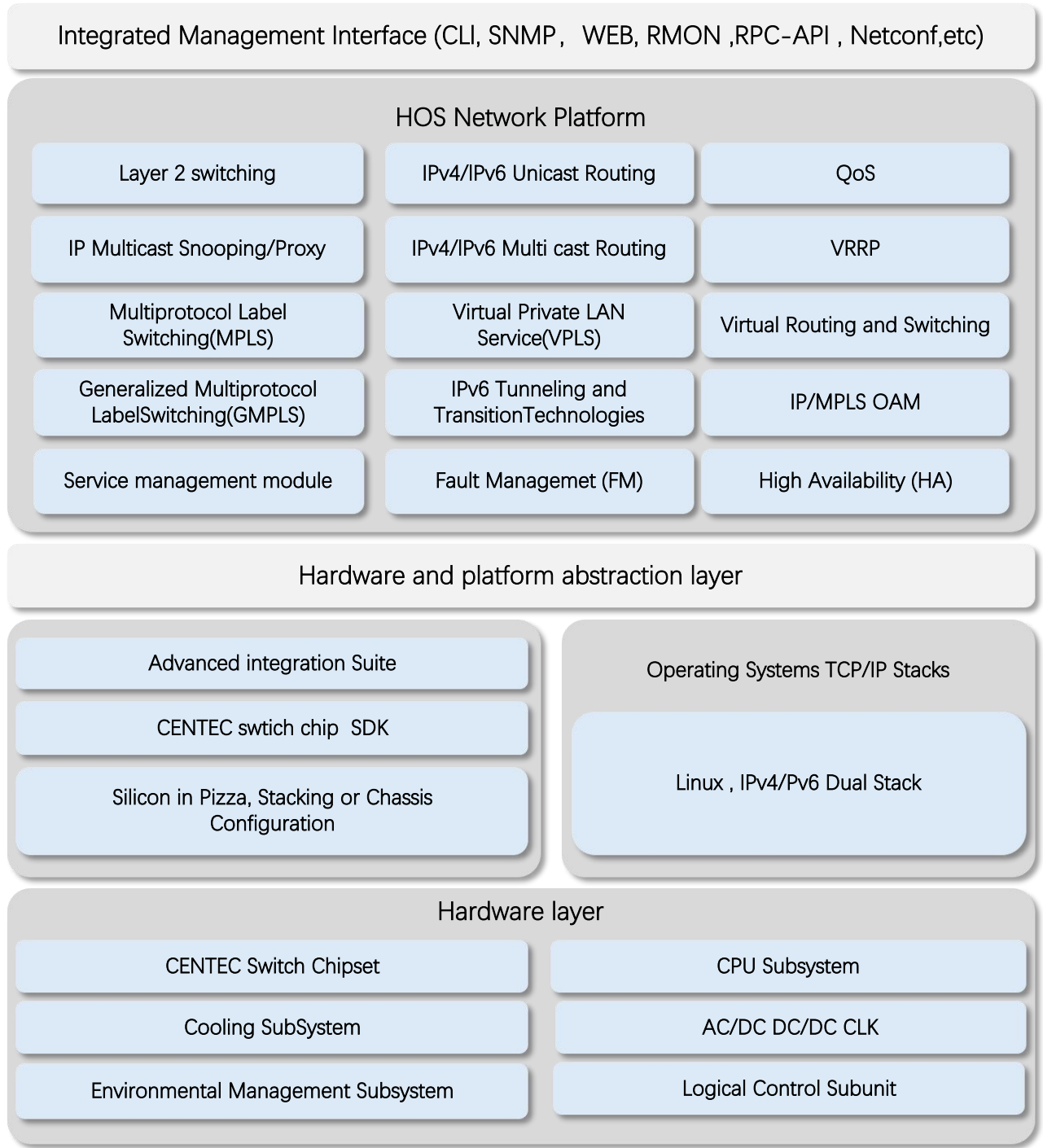
- EI (Swapable PSU and FAN): ≥90000h (~10.3 Years)
- SI (Fixed PSU and FAN): ≥70000h (~8.0 Years)

PoE Power Budget

- S5548PB-2Q4X-EI: 2200W
- S5548P-2Q4X-SI: 780W
- S5548P-2Q4X-EI: 740W
- S5524PB-2Q4X-EI: 740W
- S5524P-2Q4X-SI: 380W

S5500 Software Specifications

HOHUNET implements a unified software platform, and the software capabilities supported by the devices are listed in the document [‘HOS Software features’](#) .



- * All HOHUNET switches use a normalized software platform and image package file
- * Unified software version iteration plan
- * Unified user experience

Ordering Information

S5500 Series Switches

Items	Description
S5548PB-2Q4X-EI	1G Enterprise and Campus Network switch,with 48*1G Base-T(PoE++ 90W),4*25G SFP28,2*40G QSFP+,Dual power supply modules, 2 hot-swap fan modules
S5548P-2Q4X-SI	1G Enterprise and Campus Network switch,with 48*1G Base-T(PoE+ 30W),4*25G SFP28,2*40G QSFP+,One fixed power supply,4 Fixed fans
S5548P-2Q4X-EI	1G Enterprise and Campus Network switch,with 48*1G Base-T(PoE+ 30W),4*25G SFP28,2*40G QSFP+,Dual power supply modules, 2 hot-swap fan modules
S5548-2Q4X-SI	1G Enterprise and Campus Network switch,with 48*1G Base-T,4*25G SFP28,2*40G QSFP+,One fixed power supply,4 Fixed fans
S5548-2Q4X-EI	1G Enterprise and Campus Network switch,with 48*1G Base-T,4*25G SFP28,2*40G QSFP+,Dual power supply modules, 2 hot-swap fan modules
S5524PB-2Q4X-EI	1G Enterprise and Campus Network switch, with 24*1G Base-T (PoE++ 90W),4*25G SFP28,2*40G QSFP+, Dual power supply modules, 2 hot-swap fan modules
S5524P-2Q4X-SI	1G Enterprise and Campus Network switch,with 24*1G Base-T(PoE+ 30W),4*25G SFP28,2*40G QSFP+,One fixed power supply,4 Fixed fans
S5524-2Q4X-SI	1G Enterprise and Campus Network switch,with 24*1G Base-T,4*25G SFP28,2*40G QSFP+,One fixed power supply,4 Fixed fans
S5524-2Q4X-EI	1G Enterprise and Campus Network switch, with 24*1G Base-T,4*25G SFP28,2*40G QSFP+, Dual power supply modules, 2 hot-swap fan modules

AC/DC Power Supplies use for S5500 Series EI model

Items	Description
PSU-120-AC-AFO	S5500 Series 120W AC power supply (Front to Rear Airflow)
PSU-120-DC-AFO	S5500 Series 120W DC power supply (Front to Rear Airflow)
PSU-500-AC-AFO	S5500 Series 500W AC power supply (Front to Rear Airflow)
PSU-500-DC-AFO	S5500 Series 500W DC power supply (Front to Rear Airflow)
PSU-550-AC-AFO	S5500 Series 550W AC power supply (Front to Rear Airflow)
PSU-550-DC-AFO	S5500 Series 550W DC power supply (Front to Rear Airflow)
PSU-1200-AC-AFO	S5500 Series 1200W AC power supply (Front to Rear Airflow)
PSU-1200-DC-AFO	S5500 Series 1200W DC power supply (Front to Rear Airflow)

Software Licenses

Items	Description
Software License	EB, Basic L3 software features, Preinstalled
Software License	MS, L3 enhance features software license key
Software License	MA, MPLS features software license key
Software License	ST, Stacking feature software license key

Accessory of S5500 Series

Items	Front Mounting	Rear Mounting	Screw	Power Cord	Console (DB9 to RJ45)
S5548PB-2Q4X-EI	2	2	14	2	1
S5548P-2Q4X-SI	2	/	14	1	1
S5548P-2Q4X-EI	2	2	14	2	1
S5548-2Q4X-SI	2	/	14	1	1
S5548-2Q4X-EI	2	2	14	2	1
S5524PB-2Q4X-EI	2	2	14	2	1
S5524P-2Q4X-SI	2	/	14	1	1
S5524-2Q4X-SI	2	/	14	1	1
S5524-2Q4X-EI	2	2	14	2	1

About HOHUNET:

HOHUNET was established in 2015 as a technology-oriented company specializing in the independent development of switch products based on domestic chips. With the continuous evolution of chip technology, HOHUNET has launched a range of differentiated products based on this chip platform. Currently, the company's product line covers a range from 1G to 800G and can be used in scenarios such as enterprise networks, carrier networks, data centers, and AI computing power. Currently, the main cooperation model for the company is OEM/ODM, dedicated to providing customers with flexible and end-to-end customized products and technical consulting services. Becoming the most trusted business partner for customers has always been the company's mission and principle.

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