DynamicDuo SERIES SWITCHES DATASHEET

Flexible Campus and Enterprise Switch

Version: V1.4
Release Date: 2025/12/17

Product Overview

The DynamicDuo Series switches designed on a domestic popular switch chip, which called VastLakes and BigFlow Series Chip platform with 10G/25G/40G/100G high speed ports and rich features, these switches will perfectly meets the requirements of Campus, Enterprise, Data Center, and SDVoE networks.
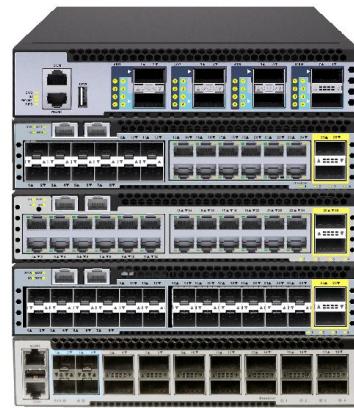
Key features of the DynamicDuo Series Switches

- Built-in SDVoE API Server simplifies user operation steps.
- Supports the implementation of physical dual-machine redundancy in 1U space, reducing the user's usage cost.
- MLAG which can build an Active-Active system to improve the reliability of the network links from single board grade to device grade.
- Supports Precision Timing Protocol.
- Rich L2/L3 features like IPv6, OSPF, BGP, PIM, etc.

The DynamicDuo Series switches provide various power supply solutions for customers choosing, fixed single power supply, and redundant hot-swappable power supplies (AC and DC are both available). The fan solutions also have 1 bay with field replaceable fan modules and build in fans. Generally, air flow of DynamicDuo Series is front to back (AFO), and some of models can do customization of back to front (AFI) airflow.

### Table 1: Feasible PSU and airflow of DynamicDuo Series

Items	AC	DC	AFO	AFI	Power Input	FAN
S7814ZH-4N-EI	◯	◯	◯	◯	2	2
S7606X-2Z-EI	◯	◯	◯	◯	1	1
S7606X-2Z/SI	◯	X	◯	X	1	2

Items	AC	DC	AFO	AFI	Power Input	FAN
S5624XH-2Z-EI	○	○	○	○	1	1
S5624XH-2Z-SI	○	X	○	X	1	2
S5612X12TH-2Z-EI	○	○	○	○	1	1
S5612X12TH-2Z-SI	○	X	○	X	1	2
S5624TH-2Z-EI	○	○	○	○	1	1
S5624TH-2Z-SI	○	X	○	X	1	2

- **Visual WEB GUI**

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

Moreover, SDVoE switches built-in SDVoE API Server, users no need to purchase additional SDVoE controller, simplifying the network architecture. The web page is simple and easy to operate, without complicated steps, only the following three simple parts: SDVoE, Multicast, DHCP Server, you can complete the relevant configuration of SDVoE, and reduce the overall time cost and project cost of users.
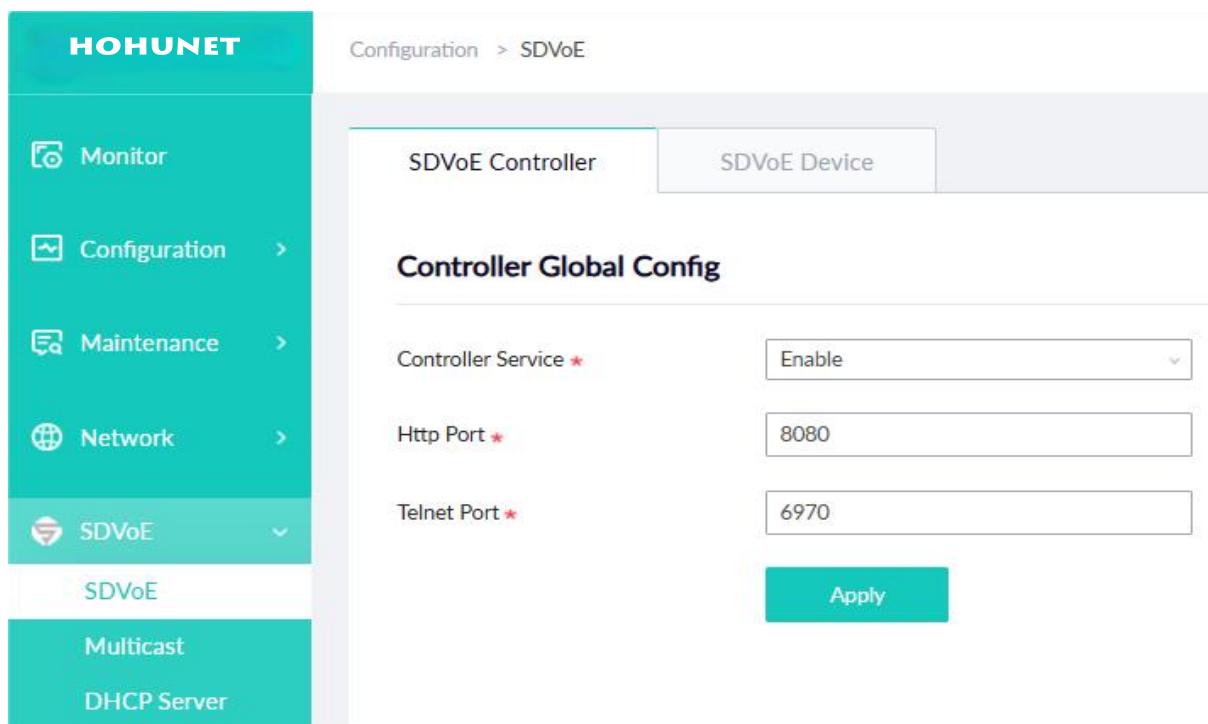
- **Outstanding management features**

The DynamicDuo 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, 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.
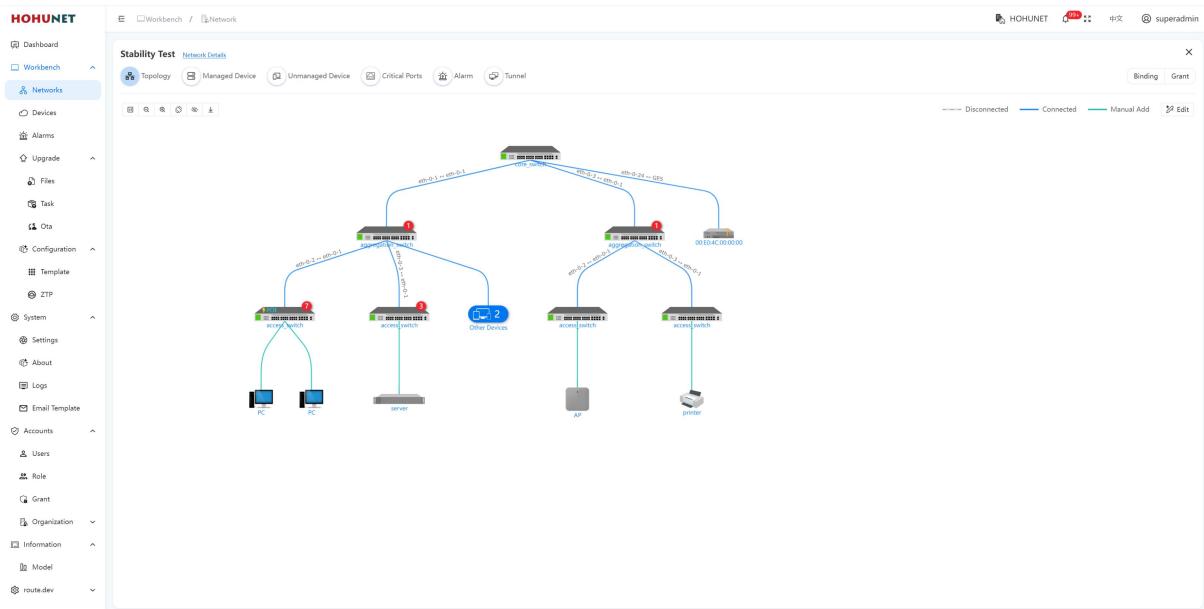
- ### Support MLAG Active-active dual-system hot backup

Support MLAG (Multi-Chassis Link Aggregation) to aggregate links across different devices. MLAG can build an Active-Active system to improve the reliability of the network links from single board grade to device grade. MLAG use a peer link between to devices to aggregate two devices and make them as one device logically. Ports of two different devices join the aggregate ports together and all port can transmit the data traffic. MLAG need to management the device respectively, but the configurations are easier than stacking, reboot is NOT required after MLAG is configured. Forwarding and configuring are processing on local device, in normal condition the traffic do NOT transmit trough the peer link, the bandwidth of peer link is not the bottleneck of the network and the latency is low.

MLAG Active-active dual-system hot backup
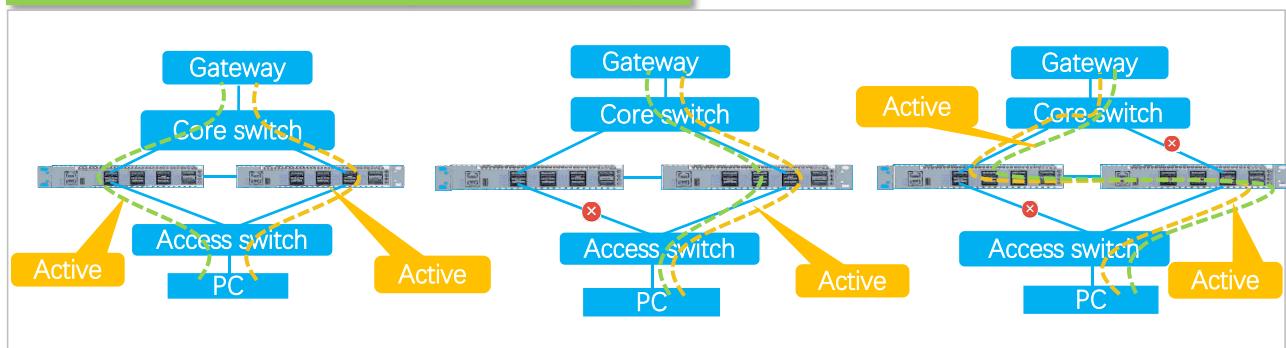
- ### Supports Multiple Dual-system Physical Hot Backup

Dual Physical backup

1. Switches links for server access in 1U
2. Dual-homing for access switches in 1U
3. Dual reduntant power supplies （support RPS）
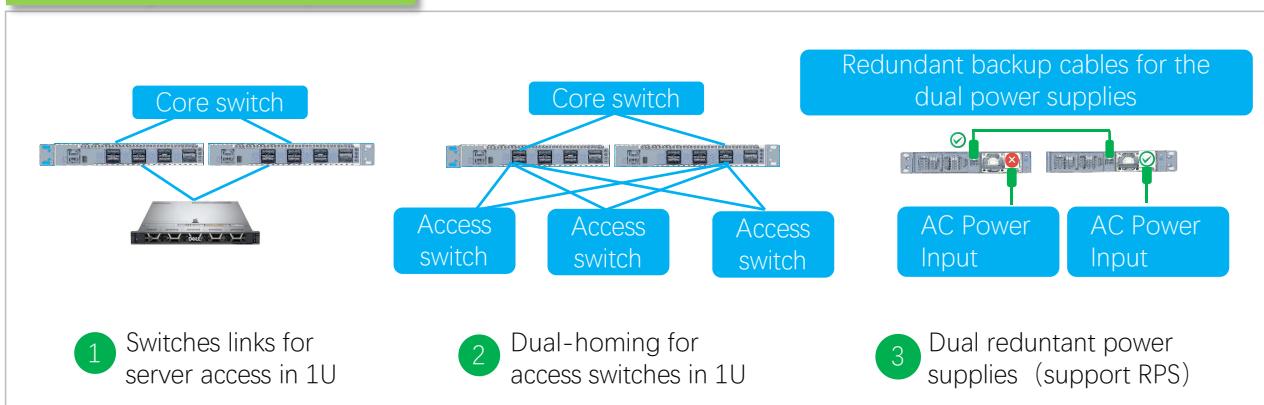
● Flexible and Diverse Deployment modes, with 1U for Dual Physical Redundancy

① Single-cabinet Installation with 1U
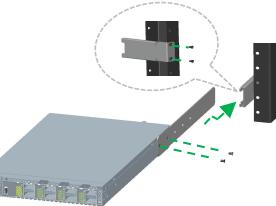
① Install the rear slide rail   ② Mounting racks
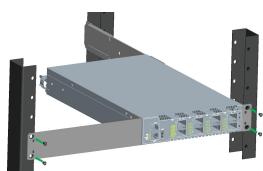
② 1U Wall-mounted Installation
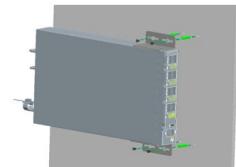
① Wall-mounted Installation

③ Two-node Installation in 1U Cabinet
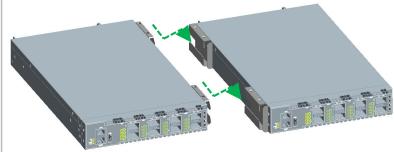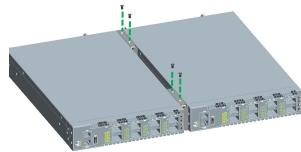
① Two-node Installation   ② Fix screws   ③ Install mounting brackets

④ Single-row stacking without cabinets
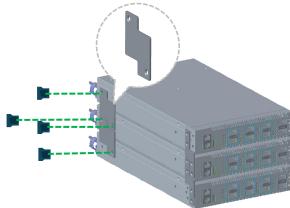
① Install stack bracket   ② Install front stack bracket
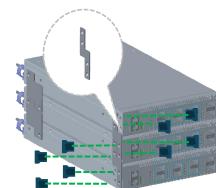
⑤ Two-node Installation without Cabinet
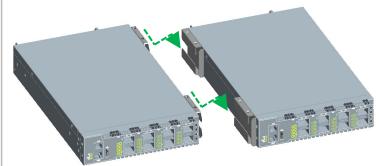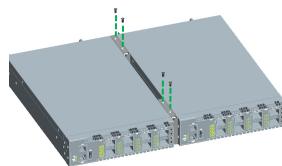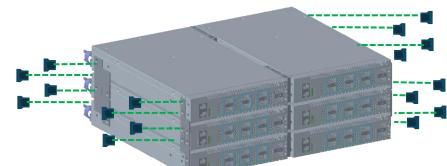
① Two-node Installation   ② Fix screws   ③ Install stacking brackets

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

Table 2: Family of the DynamicDuo Series switches

Models	Ethernet Ports	Management	PSU 1/PSU 2	Cooling
S7814ZH-4N-EI	14 x 100G QSFP28, 4 x 25G SFP28	Console: RJ45 RS232 Ethernet: 1G Port Storage: USB	300W/300W CRPS	2 x hot-swappable Fan Module (front-to-back airflow)
S7606X-2Z-EI	6 x 40G QSFP+, 2 x 100G QSFP28		350W CRPS	1 x hot-swappable Fan Module (front-to-back airflow)
S7606X-2Z-SI			150W Fixed single power supply	2 x fixed fans (front-to-back airflow)
S5624XH-2Z-EI	24 x 10G SFP+, 2 x 100G QSFP28		550W CRPS	1 x hot-swappable Fan Module (front-to-back airflow)
S5624XH-2Z-SI			150W Fixed single power supply	2 x fixed fans (front-to-back airflow)
S5612X12TH-2Z-EI	12 x 10G SFP+, 12 x 10G Base-T, 2 x 100G QSFP28	Console: RJ45 RS232 Ethernet: 1G Port	550W CRPS	1 x hot-swappable Fan Module (front-to-back airflow)
S5612X12TH-2Z-SI			Fixed single power supply	3 x fixed fans (front-to-back airflow)
S5624TH-2Z-EI	24 x 10G Base-T, 2 x 100G QSFP28		550W CRPS	1 x hot-swappable Fan Module (front-to-back airflow)
S5624TH-2Z-SI			300W Fixed single power supply	2 x fixed fans (front-to-back airflow)

DynamicDuo Physical Specifications

Packet Switch capacity (bidirectional)
- S7814ZH-4N-EI: 3.0Tbps
- S7606X-2Z-EI: 880Gbps
- S7606X-2Z-SI: 880Gbps
- S5624XH-2Z-EI: 880Gbps
- S5624XH-2Z-SI: 880Gbps
- S5612X12TH-2Z-EI: 880Gbps
- S5612X12TH-2Z-SI: 880Gbps
- S5624TH-2Z-EI: 880Gbps
- S5624TH-2Z-SI: 880Gbps

Layer 2/Layer 3 Throughput (bidirectional)
- S7814ZH-4N-EI: 4464Mpps
- S7606X-2Z-EI: 1309.44Mpps
- S7606X-2Z-SI: 1309.44Mpps
- S5624XH-2Z-EI: 1309.44Mpps
- S5624XH-2Z-SI: 1309.44Mpps
- S5612X12TH-2Z-EI: 1309.44Mpps
- S5612X12TH-2Z-SI: 1309.44Mpps
- S5624TH-2Z-EI: 1309.44Mpps
- S5624TH-2Z-SI: 1309.44Mpps

Environmental ranges
- Operating temperature: 0ºC to 40ºC
- Storage temperature: -40ºC to 70ºC
- Running Humidity: 10% to 90% (No condensation)
- Store Humidity: 0 to 95% (No condensation)

Temperature alarm
- Alarm threshold: 50ºC

Memory
- eMMc: 8GB on all models
- DRAM: 2GB on all models

CPU
- Dual-core processor, ARM A53

Acoustic in dBA
- S7814ZH-4N-EI: 62.67dB
- S7606X-2Z-EI: 43.67dB
- S7606X-2Z-SI: 47.1dB
- S5624XH-2Z-EI: 39.1dB
- S5624XH-2Z-SI: 46.87dB
- S5612X12TH-2Z-EI: 49.4dB
- S5612X12TH-2Z-SI: TBD
- S5624TH-2Z-EI: 45.47dB
- S5624TH-2Z-SI: 39.1dB

Cooling [CFM]
- S7814ZH-4N-EI: 21.61cfm
- S7606X-2Z-EI: 34.38cfm
- S7606X-2Z-SI: 23.24cfm
- S5624XH-2Z-EI: 34.38cfm
- S5624XH-2Z-SI: 23.24cfm
- S5612X12TH-2Z-EI: 38.49cfm
- S5612X12TH-2Z-SI:TBD
- S5624TH-2Z-EI: 38.49cfm
- S5624TH-2Z-SI: 41.43cfm

MTBF
- S7814ZH-4N-EI: ≥90000H
- S7606X-2Z-EI: ≥90000H
- S7606X-2Z-SI: ≥70000H
- S5624XH-2Z-EI: ≥90000H
- S5624XH-2Z-SI: ≥70000H

MTBF(continued)
- S5612X12TH-2Z-EI: ≥90000H
- S5612X12TH-2Z-SI: ≥70000H
- S5624TH-2Z-EI: ≥90000H
- S5624TH-2Z-SI: ≥70000H

DynamicDuo Physical Specifications

Power consumption
Worst case, all ports used, line-rate traffic
- S7814ZH-4N-EI: 133W
- S7606X-2Z-EI: 56W
- S7606X-2Z-SI: TBD
- S5624XH-2Z-EI: 64W
- S5624XH-2Z-SI: 38W
- S5612X12TH-2Z-EI: 81W
- S5612X12TH-2Z-SI: TBD
- S5624TH-2Z-EI: 101W
- S5624TH-2Z-SI: 98W

Typical Power consumption
- S7814ZH-4N-EI: 123W
- S7606X-2Z-EI: 55W
- S7606X-2Z-SI: TBD
- S5624XH-2Z-EI: 39W
- S5624XH-2Z-SI: 36W
- S5612X12TH-2Z-EI: 77W
- S5612X12TH-2Z-SI: TBD
- S5624TH-2Z-EI: 100W
- S5624TH-2Z-SI: 94W

Dimensions (W x H x D) without package
- S7814ZH-4N-EI: 21.5x4.4x40.8cm
- S7606X-2Z-EI: 21.5x4.4x35.5cm
- S7606X-2Z-SI: 21.5x4.4x35.5cm
- S5624XH-2Z-EI: 21.5x4.4x35.5cm
- S5624XH-2Z-SI: 21.5x4.4x35.5cm
- S5612X12TH-2Z-EI: 21.5x4.4x35.6cm
- S5612X12TH-2Z-SI: 21.5x4.4x35.6cm
- S5624TH-2Z-EI: 21.5x4.4x35.6cm
- S5624TH-2Z-SI: 21.5x4.4x35.6cm

Dimensions (W x H x D) with package
- S7814ZH-4N-EI: 55.7x15x49.5cm
- S7606X-2Z-EI: 48.5x12.5x34.3cm
- S7606X-2Z-SI: 48.5x12.5x34.3cm
- S5624XH-2Z-EI: 48.5x12.5x34.3cm
- S5624XH-2Z-SI: 48.5x12.5x34.3cm
- S5612X12TH-2Z-EI: 48.5x12.5x34.3cm
- S5612X12TH-2Z-SI: 48.5x12.5x34.3cm
- S5624TH-2Z-EI: 48.5x12.5x34.3cm
- S5624TH-2Z-SI: 48.5x12.5x34.3cm

Weight (Net Weight/Gross Weight)
- S7814ZH-4N-EI: 4.5kg/7kg
- S7606X-2Z-EI: 3.3kg/5.3kg
- S7606X-2Z-SI: 3kg/5kg
- S5624XH-2Z-EI: 3.5kg/5.5kg
- S5624XH-2Z-SI: 2.7kg/4.7kg
- S5612X12TH-2Z-EI: 3.5kg/5.5kg
- S5612X12TH-2Z-SI: 3kg/5kg
- S5624TH-2Z-EI: 3.5kg/5.5kg
- S5624TH-2Z-SI: 3kg/5kg

Operating altitude
- S7814ZH-4N-EI: $\leq$5000m
- S7606X-2Z-EI: $\leq$5000m
- S7606X-2Z-SI: $\leq$3000m
- S5624XH-2Z-EI: $\leq$5000m
- S5624XH-2Z-SI: $\leq$3000m
- S5612X12TH-2Z-EI: $\leq$5000m
- S5612X12TH-2Z-SI: $\leq$5000m
- S5624TH-2Z-EI: $\leq$5000m
- S5624TH-2Z-SI: $\leq$5000m

DynamicDuo Software Specifications

HOHUNET implements a unified software platform, and the software capabilities supported by the devices are listed in the document 'HOS Software features' .

Integrated Management Interface (CLI, SNMP, WEB, RMON, RPC-API, Netconf, etc)		

HOS Network Platform

Layer 2 switching	IPv4/IPv6 Unicast Routing	QoS
IP Multicast Snooping/Proxy	IPv4/IPv6 Multi cast Routing	VRRP
Multiprotocol Label Switching(MPLS)	Virtual Private LAN Service(VPLS)	Virtual Routing and Switching
Generalized Multiprotocol LabelSwitching(GMPLS)	IPv6 Tunneling and TransitionTechnologies	IP/MPLS OAM
Service management module	Fault Managemet (FM)	High Availability (HA)

Hardware and platform abstraction layer

Advanced integration Suite	Operating Systems TCP/IP Stacks
CENTEC swtich chip SDK	
Silicon in Pizza, Stacking or Chassis Configuration	Linux , IPv4/Pv6 Dual Stack

Hardware layer

CENTEC Switch Chipset	CPU Subsystem
Cooling SubSystem	AC/DC DC/DC CLK
Environmental Management Subsystem	Logical Control Subunit

* All HOHUNET switches use a normalized software platform and image package file

* Unified software version iteration plan

* Unified user experience

Ordering Information

DynamicDuo Series Switches

Items	Description
S7814ZH-4N-EI	100G enterprise switch, with 14*100G QSFP28, 4*25G SFP28, 2*hot-swap PSU modules(C13), 2*hot-swap fan modules.
S7606X-2Z-EI	40G enterprise switch, with 6*40G QSFP+, 2*100G QSFP28, 1*hot-swap PSU module(C13), 1*hot-swap fan module.
S7606X-2Z-SI	40G enterprise switch, with 6*40G QSFP+, 2*100G QSFP28, 1*fixed PSU(C13), 2 fixed Fans.
S5624XH-2Z-EI	10G enterprise switch, with 24*10G SFP+, 2*100G QSFP28, 1*hot-swap PSU module(C13), 1*hot-swap fan module.
S5624XH-2Z-SI	10G enterprise switch, with 24*10G SFP+, 2*100G QSFP28, 1*fixed PSU(C13), 2 fixed Fans.
S5612X12TH-2Z-EI	10G enterprise switch, with 12*10G SFP+, 12*10G Base-T, 2*100G QSFP28, 1*hot-swap PSU module(C13), 1*hot-swap fan module.
S5612X12TH-2Z-SI	10G enterprise switch, with 12*10G SFP+, 12*10G Base-T, 2*100G QSFP28, 1*fixed PSU(C13), 2 fixed Fans.
S5624TH-2Z-EI	10G enterprise switch, with 24*10G Base-T, 2*100G QSFP28, 1*hot-swap PSU module(C13), 1*hot-swap fan module.
S5624TH-2Z-SI	10G enterprise switch, with 24*10G Base-T, 2*100G QSFP28, 1*fixed PSU(C13), 2 fixed Fans.

AC/DC Power Supplies use for S7814ZH-4N-EI, S7606X-2Z-EI, S5624XH-2Z-EI, S5612X12TH-2Z-EI, S5624TH-2Z-EI.

Items	Description
PSU-300-AC-AFO	DynamicDuo Series 300 W AC power supply (front-to-back airflow)
PSU-350-AC-AFO	DynamicDuo Series 350 W AC power supply (front-to-back airflow)
PSU-550-AC-AFO	DynamicDuo Series 550 W AC power supply (front-to-back airflow)
PSU-550-DC-AFO	DynamicDuo Series 550 W DC power supply (front-to-back airflow)

Accessory of DynamicDuo Series

Items	Front Mounting Bracket-Short	Front Mounting Bracket-Long	Rear Mounting Bracket	Sliding Rail	Wall-Mounting Bracket	Middle Mounts-Female	Middle Mounts-Male
S7814ZH-4N-EI	1	1	1	1	2	1	1
S7606X-2Z-EI	1	1	1	1	2	1	1
S7606X-2Z-SI	1	1	0	0	0	1	1
S5624XH-2Z-EI	1	1	1	1	2	1	1
S5624XH-2Z-SI	1	1	0	0	0	1	1
S5612X12TH-2Z-EI	1	1	1	1	2	1	1
S5612X12TH-2Z-SI	1	1	0	0	0	1	1
S5624TH-2Z-EI	1	1	1	1	2	1	1
S5624TH-2Z-SI	1	1	0	0	0	1	1

Items	Grounding Cable	Power Cord	RPS Cord	Console Cable	M4 Screws	Stack bracket Front	Stack bracket Back
S7814ZH-4N-EI	1	1	1	1	12	2	2
S7606X-2Z-EI	1	1	1	1	12	0	0
S7606X-2Z-SI	1	1	1	1	12	0	0
S5624XH-2Z-EI	1	1	1	1	12	2	2
S5624XH-2Z-SI	1	1	1	1	12	0	0
S5612X12TH-2Z-EI	1	1	1	1	12	2	2
S5612X12TH-2Z-SI	1	1	1	1	12	0	0
S5624TH-2Z-EI	1	1	1	1	12	2	2
S5624TH-2Z-SI	1	1	1	1	12	0	0

Software Licenses

Items	Description
Software License	EB, L3 features software license key, preinstalled on SI models.
Software License	MS, L3 enhance features software license key, preinstalled on EI models.
Software License	MA, MPLS features software license key
Software License	ST, Stacking feature software license key

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.

Contact us:

Shenzhen Haohu Network Technology Co.,Ltd.

Headquarter Address:

Lining Center Building, Nanshan Hi-Tech Park, Nanshan, Shenzhen, Guangdong, China

Corporate and Sales Email: business@hohunet.com

Telephone: 0086-755-26418565

Website: www.hohunet.com