

# S5600 SERIES SWITCHES

## DATASHEET

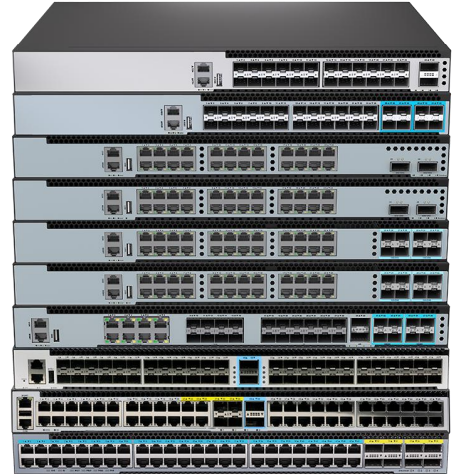
**10G Enterprise Switch**

**Version: V1.4**

**Release Date: 2025/12/31**

### Product Overview

The S5600 Series switches are designed with two generations of domestic Switch Chips, namely the widely favored [VastLakes Series Chip platform](#) and the high-performance [PeakNetX Series Chip platform](#). The S5600 Series switches have various port options and offer rich L2/L3 features, making them the perfect choice as aggregation or access switches for enterprise, government, specific industry networks.



### Key features of the S5600 Series Switches

- POE++ provide max 90W power of ports.
- Support MPLS features (L2/L3 VPN) to build a unified and converged network platform.
- MLAG which can build an Active-Active system to improve the reliability of the network links from single board grade to device grade.
- Implementing Vxlan and BGP protocols to build EVPN applications for data centers 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.

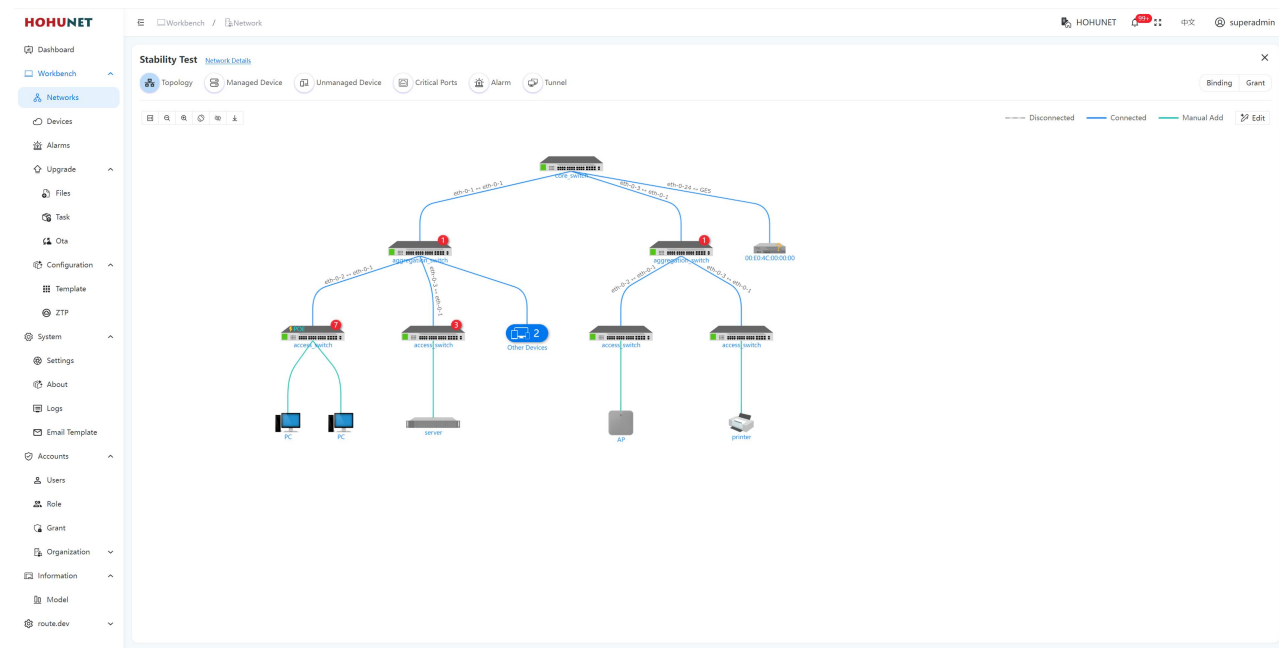
The S5600 Series switches provide various power supply solutions for customers choosing, fixed single power supply, fixed redundant power supplies, and redundant hot-swappable power supplies (AC and DC are both available). The Fan solutions also have multiple bays with Field replaceable fan modules and build in fans. Generally, air flow of S5600 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 S5600 Series Switches

| Items             | AC | DC | PoE Ports | AFO | AFI | Power Input FAN |   |
|-------------------|----|----|-----------|-----|-----|-----------------|---|
| S5648T-8Z-EI      | ○  | ○  | X         | ○   | ○   | 2               | 4 |
| S5648T-4X2Z-EI    | ○  | ○  | X         | ○   | ○   | 2               | 4 |
| S5648T-4X2Z-SI    | ○  | X  | X         | ○   | X   | 1               | 4 |
| S5648X-2Z-SI      | ○  | X  | X         | ○   | X   | 1               | 4 |
| S5624X-2Z-EI      | ○  | ○  | X         | ○   | ○   | 2               | 2 |
| S5624X-2Z-SI      | ○  | X  | X         | ○   | X   | 1               | 4 |
| S5624X-8N-EI      | ○  | ○  | X         | ○   | ○   | 2               | 2 |
| S5624T-2Z-EI      | ○  | ○  | X         | ○   | ○   | 2               | 2 |
| S5624T-2Z-SI      | ○  | X  | X         | ○   | X   | 1               | 4 |
| S5624T-8N-EI      | ○  | ○  | X         | ○   | ○   | 2               | 2 |
| S5624P-2Z-EI      | ○  | ○  | 24        | ○   | X   | 2               | 2 |
| S5624P-8N-EI      | ○  | ○  | 24        | ○   | X   | 2               | 2 |
| S5612X-16G8N2Q-EI | ○  | ○  | X         | ○   | ○   | 2               | 2 |

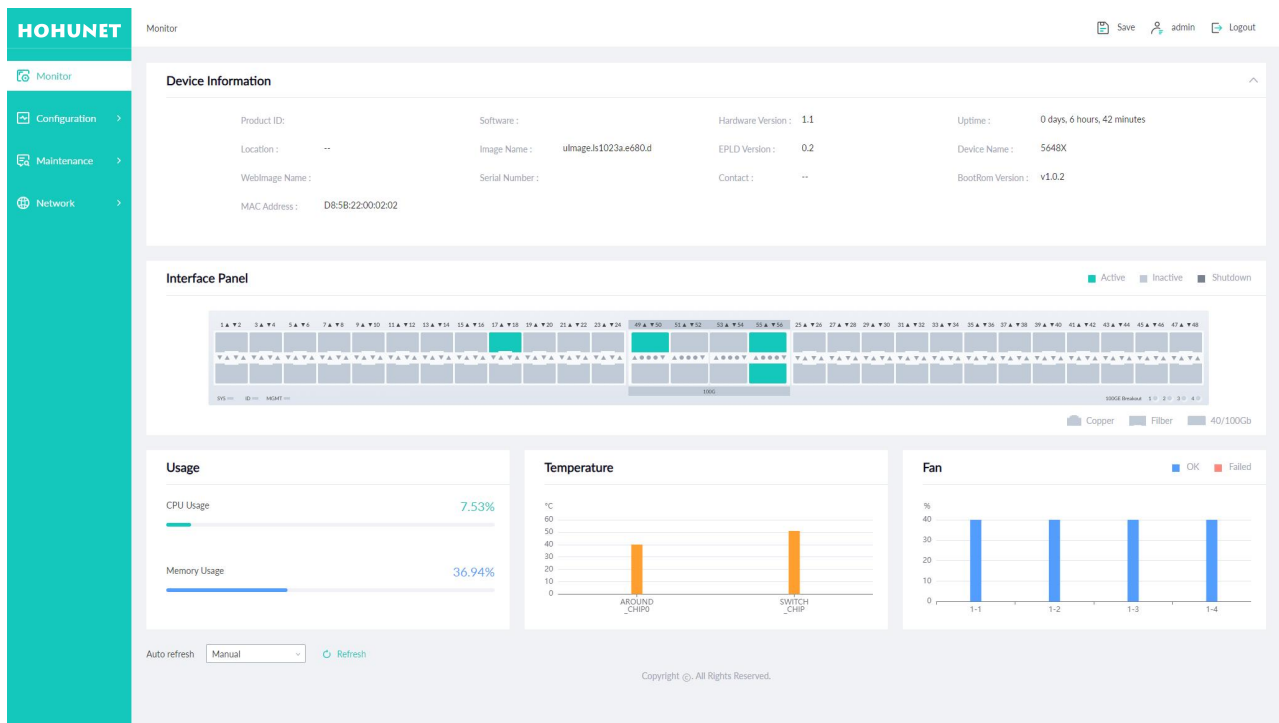
The S5600 Series switches support varied management ways, include console port / in-band network ports / out-of-band network port. Support SNMP v1/v2/v3, Support CLI (Command Line Interface), web management, Telnet and FTP connection. Support OAM to make management more convenient, and support SSH2.0, 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 S5600 family of Ethernet switches consists of the following models

Table 2: Family of the S5600 Series switches

| Models         | Ethernet Ports                                                        | Management                                                  | PSU 1/PSU 2               | Cooling                                    |
|----------------|-----------------------------------------------------------------------|-------------------------------------------------------------|---------------------------|--------------------------------------------|
| S5648T-8Z-EI   | 48 x 100M/1G/2.5G/5G/10G Base-T,<br>8 x 100G QSFP 28                  | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 550W /<br>550W CRPS       | 4 x Fan Modules<br>(front-to-back airflow) |
| S5648T-4X2Z-EI | 48 x 100M/1G/2.5G/5G/10G Base-T,<br>4 x 10G SFP+,<br>2 x 100G QSFP 28 | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 350W /<br>350W CRPS       | 4 x Fan Modules<br>(front-to-back airflow) |
| S5648T-4X2Z-SI | 48 x100M/1G/2.5G/5G/10G Base-T,<br>4 x 10G SFP+,<br>2 x 100G QSFP 28  | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | Fixed single power supply | 4 x fixed fans<br>(front-to-back airflow)  |
| S5648X-2Z-SI   | 48 x 10G SFP+,<br>2 x 100G QSFP 28                                    | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | Fixed single power supply | 4 x fixed fans<br>(front-to-back airflow)  |
| S5624X-2Z-EI   | 24 x 10G SFP+,<br>2 x 100G QSFP 28                                    | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 350W /<br>350W CRPS       | 2 x Fan Modules<br>(front-to-back airflow) |
| S5624X-2Z-SI   | 24 x 10G SFP+,<br>2 x 100G QSFP 28                                    | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | Fixed single power supply | 4 x fixed fans<br>(front-to-back airflow)  |
| S5624X-8N-EI   | 24 x 10G SFP+,<br>8 x 25G SFP 28                                      | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 350W /<br>350W CRPS       | 2 x Fan Modules<br>(front-to-back airflow) |
| S5624T-2Z-EI   | 24 x100M/1G/2.5G/5G/10G Base-T,<br>2 x 100G QSFP28                    | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 350W /<br>350W CRPS       | 2 x Fan Modules<br>(front-to-back airflow) |
| S5624T-2Z-SI   | 24 x100M/1G/2.5G/5G/10G Base-T,<br>2 x 100G QSFP28                    | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | Fixed single power supply | 4 x fixed fans<br>(front-to-back airflow)  |

| Models            | Ethernet Ports                                                                     | Management                                                  | PSU 1/PSU 2              | Cooling                                    |
|-------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------|--------------------------------------------|
| S5624T-8N-EI      | 24 x 100M/1G/2.5G/5G/10G Base-T,<br>8 x 25G SFP28                                  | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 350W /350W CRPS          | 2 x Fan Modules<br>(front-to-back airflow) |
| S5624P-2Z-EI      | 24 x 100M/1G/2.5G/5G/10G Base-T (PoE++ 90W),<br>2 x 100G QSFP 28                   | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 600W / 600W (by default) | 2 x Fan Modules<br>(front-to-back airflow) |
| S5624P-8N-EI      | 24 x 100M/1G/2.5G/5G/10G Base-T (PoE++ 90W),<br>8 x 25G SFP 28                     | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 600W / 600W (by default) | 2 x Fan Modules<br>(front-to-back airflow) |
| S5612X-16G8N2Q-EI | 12 x 10G SFP+,<br>8 x 1G Base-T,<br>8 x 1G SFP,<br>8 x 25G SFP28,<br>2 x 40G QSFP+ | Console: RJ45 to RS232<br>Ethernet: 1G Port<br>Storage: USB | 350W / 350W CRPS         | 2 x Fan Modules<br>(front-to-back airflow) |

S5600 Physical Specifications

Packet Switch capacity (Gbps)

- S5648T-8Z-El: 2560Gbps (bidirectional)
- S5648T-4X2Z-El: 1440Gbps (bidirectional)
- S5648T-4X2Z-Sl: 1440Gbps (bidirectional)
- S5648X-2Z-Sl: 1360Gbps (bidirectional)
- S5624X-2Z-El: 880Gbps (bidirectional)
- S5624X-2Z-Sl: 880Gbps (bidirectional)
- S5624X-8N-El: 880Gbps(bidirectional)
- S5624T-2Z-El: 880Gbps (bidirectional)
- S5624T-2Z-Sl: 880Gbps (bidirectional)
- S5624T-8N-El: 880Gbps (bidirectional)
- S5624P-2Z-El: 880Gbps (bidirectional)
- S5624P-8N-El: 880Gbps (bidirectional)
- S5612X-16G8N2Q-El: 832Gbps (bidirectional)

Weight (Net weight/Gross weight)

- S5648T-8Z-El: 7.2kg/10.3kg
- S5648T-4X2Z-El: TBD
- S5648T-4X2Z-Sl: TBD
- S5648X-2Z-Sl: 4.03kg/6.5kg
- S5624X-2Z-El: 5kg/9kg
- S5624X-2Z-Sl: 5kg/8.5kg
- S5624X-8N-El: 5kg/8.5kg
- S5624T-2Z-El: 5kg/9kg
- S5624T-2Z-Sl: 6.96kg/10kg
- S5624T-8N-El: 6.96kg/10kg
- S5624P-2Z-El: 6.96kg/8.8kg
- S5624P-8N-El: 6.96kg/10kg
- S5612X-16G8N2Q-El: 6.96kg/9kg

Layer 2/Layer 3 Throughput (Mpps)

- S5648T-8Z-El: 3809.28Mpps (bidirectional)
- S5648T-4X2Z-El: 2142.72Mpps (bidirectional)
- S5648T-4X2Z-Sl: 2142.72Mpps (bidirectional)
- S5648X-2Z-Sl: 2023.68Mpps (bidirectional)
- S5624X-2Z-El: 1309.44Mpps (bidirectional)
- S5624X-2Z-Sl: 1309.44Mpps (bidirectional)
- S5624X-8N-El: 1309.44Mpps (bidirectional)
- S5624T-2Z-El: 1309.44Mpps (bidirectional)
- S5624T-2Z-Sl: 1309.44Mpps (bidirectional)
- S5624T-8N-El: 1309.44Mpps (bidirectional)
- S5624P-2Z-El: 1309.44Mpps (bidirectional)
- S5624P-8N-El: 1309.44Mpps (bidirectional)
- S5612X-16G8N2Q-El: 1238Mpps (bidirectional)

Dimensions (W x H x D) without package

- S5648T-8Z-El: 44.2×4.4×42cm
- S5648T-4X2Z-El: 44.2×4.4×38cm
- S5648T-4X2Z-Sl: 44.2×4.4×37.1cm
- S5648X-2Z-Sl: 44.2×4.4×29cm
- S5624X-2Z-El: 44.2×4.4×35.7cm
- S5624X-2Z-Sl: 44.2×4.4×29cm
- S5624X-8N-El: 44.2×4.4×35.7cm
- S5624T-2Z-El: 44.2×4.4×35.7cm
- S5624T-2Z-Sl: 44.2×4.4×29.1cm
- S5624T-8N-El: 44.2×4.4×35.6cm
- S5624P-2Z-El: 44.2×4.4×35.5cm
- S5624P-8N-El: 44.2×4.4×35.6cm
- S5612X-16G8N2Q-El: 44.2×4.4×35.7cm

Dimensions (W x H x D) with package

- S5648T-8Z-EI: 66.5×15×56.5cm
- S5648T-4X2Z-EI: 55.7×15×49.5cm
- S5648T-4X2Z-SI: 55.7×15×49.5cm
- S5648X-2Z-SI: 55.7×15×49.5cm
- S5624X-2Z-EI: 55.7×15×49.5cm
- S5624X-2Z-SI: 55.7×15×49.5cm
- S5624X-8N-EI: 55.7×15×49.5cm
- S5624T-2Z-EI: 55.7×15×49.5cm
- S5624T-2Z-SI: 55.7×15×49.5cm
- S5624T-8N-EI: 55.7×15×49.5cm
- S5624P-2Z-EI: 55.7×15×49.5cm
- S5624P-8N-EI: 55.7×15×49.5cm
- S5612X-16G8N2Q-EI: 55.7×15×49.5cm

Operating altitude

- S5648T-8Z-EI: 0~5km
- S5648T-4X2Z-EI: 0~5km
- S5648T-4X2Z-SI: 0~3km
- S5648X-2Z-SI: 0~3km
- S5624X-2Z-EI: 0~5km
- S5624X-2Z-SI: 0~3km
- S5624X-8N-EI: 0~5km
- S5624T-2Z-EI: 0~5km
- S5624T-2Z-SI: 0~3km
- S5624T-8N-EI: 0~5km
- S5624P-2Z-EI: 0~5km
- S5624P-8N-EI: 0~5km
- S5612X-16G8N2Q-EI: 0~5km

Temperature alarm

- Alarm threshold: 50°C

Power consumption

Worst case, all ports used, line-rate traffic

- S5648T-8Z-EI: 260W
- S5648T-4X2Z-EI: TBD
- S5648T-4X2Z-SI: TBD
- S5648X-2Z-SI: TBD
- S5624X-2Z-EI: 64W
- S5624X-2Z-SI: 55W
- S5624X-8N-EI: 76W
- S5624T-2Z-EI: 106W
- S5624T-2Z-SI: 112W
- S5624T-8N-EI: TBD
- S5624P-2Z-EI: 112W
- S5624P-8N-EI: 116W
- S5612X-16G8N2Q-EI: 72W

Typical power consumption

- S5648T-8Z-EI: 257W
- S5648T-4X2Z-EI: TBD
- S5648T-4X2Z-SI: TBD
- S5648X-2Z-SI: TBD
- S5624X-2Z-EI: TBD
- S5624X-2Z-SI: TBD
- S5624X-8N-EI: 74W
- S5624T-2Z-EI: 73W
- S5624T-2Z-SI: 94W
- S5624T-8N-EI: TBD
- S5624P-2Z-EI: 106W
- S5624P-8N-EI: 65W
- S5612X-16G8N2Q-EI: 49W

PoE Power Budget

- S5624P-2Z-EI: 1000W
- S5624P-8N-EI: 1000W



Memory

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

CPU

- VastLake Platform
- Dual-core processor, ARM A53(1.2GHz) on following models  
S5648T-4X2Z-EI  
S5648T-4X2Z-SI  
S5648X-2Z-SI  
S5624X-2Z-EI  
S5624X-2Z-SI  
S5624X-8N-EI  
S5624T-2Z-EI  
S5624T-2Z-SI  
S5624T-8N-EI  
S5624P-2Z-EI  
S5624P-8N-EI  
S5612X-16G8N2Q-EI
- PeakNetX Platform
- Dual-core processor, ARM A53(1GHz) on following models  
PeakNetX Platform  
S5648T-8Z-EI

Environmental ranges

- Operating temperature: 0°C to 45°C
- Storage temperature: -40°C to 70°C
- Running Humidity: 10% to 90% (No condensation)
- Store Humidity: 5 to 95% (No condensation)

Cooling [CFM]-Total Maximum airflow

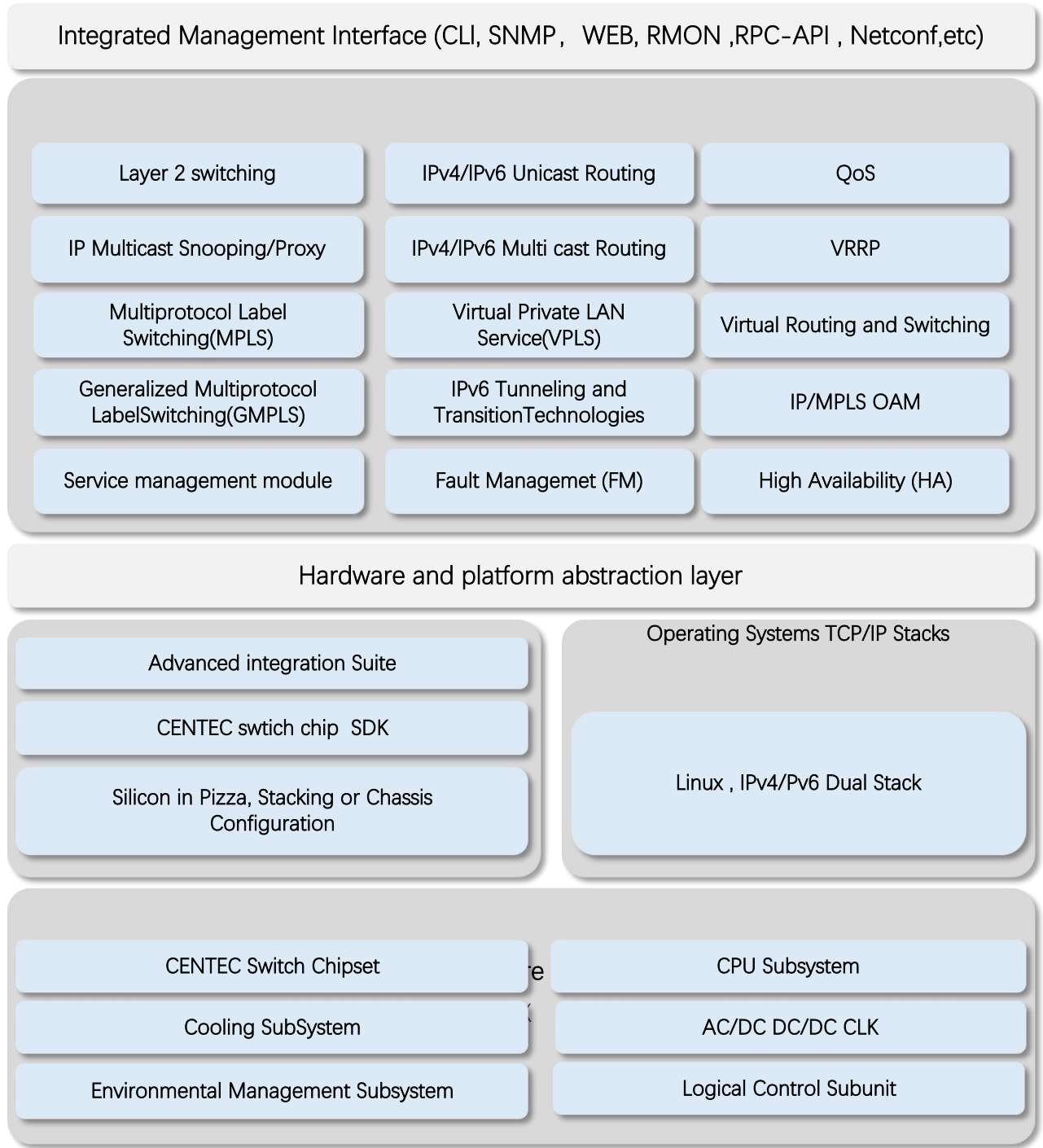
- S5648T-8Z-EI: 120.84cfm
- S5648T-4X2Z-EI: 105.32cfm
- S5648T-4X2Z-SI: 157.98cfm
- S5648X-2Z-SI: 46.48cfm
- S5624X-2Z-EI: 68.76cfm
- S5624X-2Z-SI: 46.48cfm
- S5624X-8N-EI: 68.76cfm
- S5624T-2Z-EI: 68.76cfm
- S5624T-2Z-SI: 46.48cfm
- S5624T-8N-EI: 68.76cfm
- S5624P-2Z-EI: 72.78cfm
- S5624P-8N-EI: 72.78cfm
- S5612X-16G8N2Q-EI: 68.76cfm

MTBF

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

S5600 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

S5600 Series Switches

| Item              | Description                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S5648T-8Z-EI      | 10G Data Center Switch with 48 x 10G Base-T, 8 x 100G QSFP28, 2 x power supply modules, 2 x hot-swap fan modules                                                          |
| S5648T-4X2Z-EI    | 10G Data Center Switch with 48 x 10G Base-T, 4 x 10G SFP+, 2 x 100G QSFP28, 2 x power supply modules, 4 x hot-swap fan modules                                            |
| S5648T-4X2Z-SI    | 10G Enterprise and Campus Network Switch with 48 x 10G Base-T, 4 x 10G SFP+, 2 x 100G QSFP28, Fixed single power supply, 4 x Fixed Fans                                   |
| S5648X-2Z-SI      | 10G Enterprise and Campus Network Switch with 48 x 10G SFP+, 2 x 100G QSFP28, Fixed single power supply, 4 x Fixed Fans                                                   |
| S5624X-2Z-EI      | 10G Date Center Switch with 24 x 10G SFP+, 2 x 100G QSFP28, Dual power supply modules, 2 x Hot-swap fan modules                                                           |
| S5624X-2Z-SI      | 10G Enterprise and Campus Network Switch with 24 x 10G SFP+, 2 x 100G QSFP28, Single Fixed power supply, 4 x Fixed Fans                                                   |
| S5624X-8N-EI      | 10G Data Center Switch with 24 x 10G SFP+, 8 x 25G SFP28, Dual power supply modules, 2 x hot-swap Fan modules                                                             |
| S5624T-2Z-EI      | 10G Data Center Switch with 24 x 10G Base-T, 2 x 100GQSFP28, Dual power supply modules, 2 x hot-swap Fan modules                                                          |
| S5624T-2Z-SI      | 10G Enterprise and Campus Network Switch with 24 x 10G Base-T, 2 x 100GQSFP28, Fixed single power supply, 4 x Fixed Fans                                                  |
| S5624T-8N-EI      | 10G Enterprise and Campus Network Switch with 24 x 10G Base-T, 8 x 25G QSFP28, Dual power supply modules, 2 x hot-swap fan modules                                        |
| S5624P-2Z-EI      | 10G Enterprise and Campus Network Switch with 24 x 10G Base-T (PoE++90W), 2 x 100G QSFP28, Dual power supply modules, 2 x hot-swap fan modules                            |
| S5624P-8N-EI      | 10G Enterprise and Campus Network Switch with 24 x 10G Base-T (PoE++90W), 8 x 25G QSFP28, Dual power supply modules, 2 x hot-swap fan modules                             |
| S5612X-16G8N2Q-EI | 10G Enterprise and Campus Network Switch with 12 x 10G SFP+, 8 x 1G Base-T, 8 x 1G SFP, 8 x 25G SFP28, 2 x 40G QSFP+, Dual power supply modules, 2 x Hot-swap fan modules |

AC/DC Power Supplies use for S5600 Series EI model

| Items           | Description                                                     |
|-----------------|-----------------------------------------------------------------|
| PSU-550-DC-AFO  | S5600 Series 550 W DC power supply (front-to-back airflow)      |
| PSU-600-AC-AFO  | S5600 Series 600 W AC POE power supply (front-to-back airflow)  |
| PSU-600-DC-AFO  | S5600 Series 600 W DC POE power supply (front-to-back airflow)  |
| PSU-900-AC-AFO  | S5600 Series 900 W AC POE power supply (front-to-back airflow)  |
| PSU-900-DC-AFO  | S5600 Series 900 W DC POE power supply (front-to-back airflow)  |
| PSU-1200-AC-AFO | S5600 Series 1200 W AC POE power supply (front-to-back airflow) |
| PSU-1200-DC-AFO | S5600 Series 1200 W DC POE power supply (front-to-back airflow) |

Software Licenses

| Items            | Description                                                             |
|------------------|-------------------------------------------------------------------------|
| Software License | EB, Basic L3 software features, 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                               |

Accessory of S5600 Series

| Items             | Front Mounting | Rear Mounting | Rear Rack Rail | M4 Screw | Power Cord | Ground Cord | Console (RS232 to RJ45) |
|-------------------|----------------|---------------|----------------|----------|------------|-------------|-------------------------|
| S5648T-8Z-EI      | 2              | 2             | 2              | 12       | 2          | 1           | 1                       |
| S5648T-4X2Z-EI    | 2              | 2             | 2              | 12       | 2          | 1           | 1                       |
| S5648T-4X2Z-SI    | 2              | /             | /              | 12       | 1          | 1           | 1                       |
| S5648X-2Z-SI      | 2              | /             | /              | 12       | 1          | 1           | 1                       |
| S5624X-2Z-EI      | 2              | 2             | 2              | 12       | 2          | 1           | 1                       |
| S5624X-2Z-SI      | 2              | /             | /              | 12       | 1          | 1           | 1                       |
| S5624X-8N-EI      | 2              | 2             | 2              | 12       | 2          | 1           | 1                       |
| S5624T-2Z-EI      | 2              | 2             | 2              | 12       | 2          | 1           | 1                       |
| S5624T-2Z-SI      | 2              | /             | /              | 12       | 1          | 1           | 1                       |
| S5624T-8N-EI      | 2              | 2             | 2              | 12       | 2          | 1           | 1                       |
| S5624P-2Z-EI      | 2              | 2             | 2              | 12       | 2          | 1           | 1                       |
| S5624P-8N-EI      | 2              | 2             | 2              | 12       | 2          | 1           | 1                       |
| S5612X-16G8N2Q-EI | 2              | 2             | 2              | 12       | 2          | 1           | 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.

## 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](mailto:business@hohunet.com)

Telephone: 0086-755-26418565

Website: [www.hohunet.com](http://www.hohunet.com)

