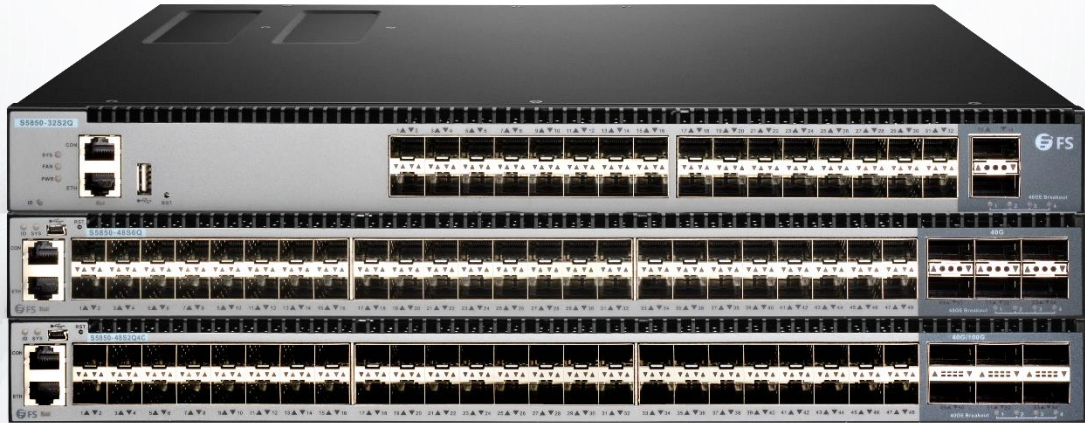# FS S5850 Series FAQ

Product Overview

What is the FS S5850 Series?

The FS S5850 Series Routing Switches are high performance Ethernet switches to meet next generation Metro, Data Center and Enterprise network requirements, which support L2/L3/Data Center/Metro features. The S5850 come with complete system software with comprehensive protocols and applications to facilitate rapid service deployment and management for both traditional L2/L3 networks and Data Center networks.

The S5850 Series are cost-effective Ethernet access and aggregation platform to Enterprise, Data Center and Metro application.

What are the focus features of the S5850 Series?

The FS S5850 Series support 10G/40G/100G ports with large capacity and high density port.Compared to other switch products on the market, the S5850 Series Switch have the following characteristics:

1).Data Center Grade Hardware Design
    a).Pluggable redundant power supply.
    b).Pluggable redundant fans.
    c).Use high quality electronic components.
    d).Power consumption is much lower than the similar products on the market.

2).Open System Design
    a).Open RPC API.

3).Traffic Visibility and Trouble-shooting Oriented Design
    a).CPU can capture any forwarding packets.
      So users can analyze the network flow without external mirror tools and the capture can be based on filter rules.

b).ACL can match VxLAN/NvGRE inner header.
   So that it can realize the VM end-to-end monitoring and trouble-shooting under the overlay network environment.
c).Support IPFIX via ASIC
d).Support IP fast Ping and L2 Ping.
e).Support elephant flow detection.
   It can be used to monitor the exceptional huge flows in the network timely. Then some actions can be taken based on the capture, including redirect, drop, rate-limit, send BGP black-hole route and adjust the flow path dynamically.
f).ASIC level telemetry support, including each packet latency, latency watermark, packet buffer timely utilization, buffer micro burst.

4).Data Center Scenario Oriented Design

a).Support VxLAN/NvGRE, including Routing/Bridging

b).Support ECN and PFC, etc.

c).Support up to 64 ways ECMP.

d).Support MLAG and VARP.

e).Support static load balancing and dynamic load balancing.

   Vxlan/Nvgre inner header can paticipate in hash calculation.

How many ports does each of the switches have?

This table below summarizes the interface combinations.

Models	S5850 -48S6Q	S5850-48S2Q4C	S5850 -32S2Q
Total SFP+ Ports	48	48	32
Total QSFP+ Ports	6	2	2
Total QSFP28 Ports	-	4	-
Max 10GbE Ports	72	72	40
Max 40GbE Ports	6	6	2
Max 100GbE Ports	-	4	-

Do these run a 3rd party software or is the switching/routing engines in them developed in-house?

Yes, it developed in-house.

What is the CPU of the S5850 Series?

Freescale PowerPC P1010 533MHz.

What OS is running on them, and how support coverage can work？

Fiberstore OS is based on the development of linux. Hardware platform compatible with x86 architecture and PowerPC architecture, and supports Enterprise/Data Center/Metro Ethernet features, including L2/L3/ACL/QoS/Security, NVGRE/VXLAN, RPC API.

Whether the S5850 Series have the function of MPLS?

No, the S5850 Series don't have the function of MPLS.

What is the temperature under the operating load?

55°C~65°C

Can the S5850 Series Switch be stacked?

The S5850 Series Switch doesn't support stacking, but it supports MLAG. Two devices can achieve cross device port aggregation.

Do the S5850 Series switches support the Network Plug and Play (PnP) agent?

No, the S5850 Series don't support PnP.

Do FS S5850 Series support IEEE802.1 Audio Video Bridging standard?

No, FS S5850 Series don't support it.

What licensing model do the FS S5850 Series use? And, are there a software license cost?

The FS S5850 Series use permanent license model. In order to facilitate the management, now we combine all licenses into two: IP Base and IP Service. There're no additional charges for upgrading to IP Base and IP Service.

If the switches can be compatible with various modules?

In principle, as long as the module standard, we can achieve compatibility. But, We recommend using our certified modules. Our switches have no special requirements for the module, and there are no limit.

What is the limits on OSPF and BGP routing, such as the number of routes?

OSPF and BGP routing supports Flexible Table Management, it can choose different profile according to different application scenarios. Default support 4K ARP Entry and 8K FIB, Arp can support up to 20K under the layer3 profile.

Are there any that can handle jumbo frames for an iSCSI environment?

Yes, there are.

What types of security layers are offered on these switches? How does FS handle security and backdoor vulnerability?

S5850 Series supports SSH, AAA, DDoS defense. In addition, it also supports
Elephant Flow Detection, CPU traffic and CPU limit, ACL, Port Security, Port Isolate, Port block, vlan security, private vlan, IP source guard, etc.

What quality-of-service (QoS) features does the S5850 Series provide to enhance traffic management?

The S5850 Series provides 1R2C and 2R3C Policing, including Port Policing and Flow Policing on both ingress and egress to help enable more flexible QoS offerings. In addition, the S5850 Series also offers scheduling and shaping, including both port shaping and queue shaping.

Step 3: Enter the command: boot_flash_nopass.
Step 4: After the switch is started, you can log in directly. At this time, the authentication of the serial password and the management password has been canceled.

Why does the port fail when the MLAG device is restarted?

After the MLAG device reboots, the state of MLAG needs to be renegotiated, which may cause network loop.

After the device reboots, all Layer 2 ports will be set to error-disable state, except for peer-link port, and the state will last 3600 seconds. During this time, the port will remain in the down state. You can change the port protection time by configuring the reload-delay timer, we recommend that this configuration should not be less than 200 seconds. You can also use the "shutdown" "no shutdown" to avoid the error-disable mechanism, eventually the port can be changed directly to the UP state.

Are there price differences for the difference images? Enterprise base, vs enterprise advanced vs metro.

S5800 is currently controling feature set through the license, rather than Image. License is bundled with the device, in other words, each switch has a license.

Does the switch system need an additional fee if it is to be upgraded?

The FS OS is updated by the officially image, so it doesn't need any additional fee. If you want to customize some of the features, we will charge a fee.

What is the warranty for the S5800 Series?

Five years warranty, including the quality of any quality problems during the free maintenance. We offer the free Tech Support.

United Kingdom   Russia

Germany

United States

China

Singapore

Australia

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