S5460C-14C Switch Data Sheet

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Product overview

The S5460C-14C is a high-performance Layer 3 managed switch engineered for audio/video over IP, equipped with 14x 40/100G QSFP28 and 4x 10/25G SFP28 ports in a compact half-width form factor. This powerful switch provides 3.0 Tbps switching capacity and 4464 Mpps forwarding rate. It features two-node power redundancy, and includes intelligent fan speed control with a quiet design, ensuring an energy-efficient and eco-friendly network.

The switch provides comprehensive L2/L3 features and supports easy management through a user-friendly Web GUI. It also supports essential protocols like IGMP Snooping & Querier, Multicast, QoS, VLAN and PTP, making it ideal for audio/video applications.

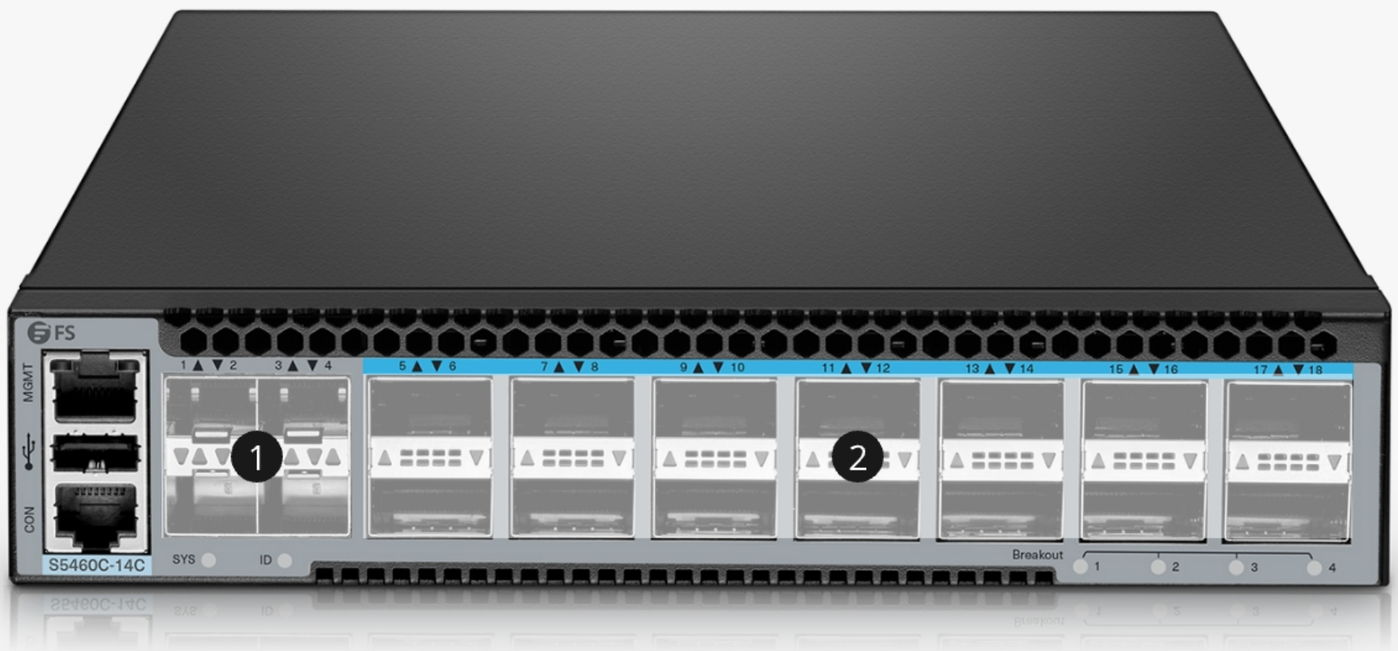
Product highlights

- 14x 100G QSFP28, 4x 25G SFP28 for 3.0Tbps High-bandwidth Switching
- The Half-width Form Factor Enables Redundant Top-of-rack
- Two-node Power Redundancy, Quiet Variable-speed Fans
- IGMP Snooping & Querier, Multicast, QoS, and PTP TC for AV Applications
- Support MLAG, VXLAN, OSPF, BGP, RIP, PBR, VRRP, VLAN, etc.
- ACLs, 802.1X, AAA, SSH, DAI, DHCP Snooping, etc. for Security
- Support CLI/WEB/SNMP/sFlow/RMON for Flexible Operation

Platform details

Switch models and configurations

Figure 1 shows the FS S5460C-14C switch.



1 4 x 10/25G SFP28 2 14 x 40/100Gb QSFP28 (split to 4x 10/25G)

Figures 1.

S5460C-14C, 18-Port Ethernet L3 Half-Width Switch, 14 x 100Gb QSFP28, with 4 x 25G SFP28, AV over IP, Support MLAG

Switch configurations and port density

Table 1 shows the FS S5460C-14C configurations and port density.

Table 1. Switch configuration and port density

> ⓘ **Notice:**
> - Port Density includes both native speed ports and ports that support downshifting.

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FS P/N	S5460C-14C
Description	18-Port Ethernet L3 Half-Width Switch, 14 x 100Gb QSFP28, with 4 x 25G SFP28, AV over IP, Support MLAG
Port	
10G port density	60
25G port density	60
40G port density	14
100G port density	14
Management ports	1
Console port	1
USB port	1
Memory and processor	
DRAM	2GB
Flash memory	8GB
Latency	0.77μs
Packet buffer	16MB

> ⓘ **Notice:**
> - RJ45 ports can be used as 10/100/1000M ports for Ethernet connection, and do not support 1G-T copper transceivers.
> - SFP+ ports can be used for 1/10G connections.
> - SFP28 can be used for 10/25G connection.
> - QSFP+ can be used for 40G or 4x 10G connection.
> - QSFP28 can be used for 40G/100G or 4x10G/4x25G connection.

Power supplies and fans

Table 2-3 provides more details on the FS S5460C-14C switch power supplies and fan specifications.

Table 2. Power supply and fan specifications

Description	S5460C-14C
Power supply	2 (1+1 Redundancy) Hot-swappable, AC
Fan number	2 (1+1 Redundancy) Hot-swappable
Airflow	Front-to-Back
Acoustic noise	62.67db
Max. power consumption	300W Max
Input-voltage range and frequency	100-240V, 50-60HZ 4.5A Max
Input current	+12V—24A; +5Vsb—3A
Power-supply input receptacles	C13

Table 3 lists the power cord information.

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Table 3. Power cord information of S5460C-14C Switch

Countries	Power Cord Standard	Male Plug	Female Connector	Voltage Compatibility	Maximum Input Amps
United States, Canada, Mexico, Puerto Rico, Guam, Japan, Virgin Islands (U.S.)	US	NEMA 5-15P	IEC60320 C13	100-250VAC	10A
United Kingdom, Hong Kong, Singapore, Malaysia, Maldives, Qatar, India	UK	BS1363	IEC60320 C13	100-250VAC	13A
Continental Europe, South Africa, Switzerland, Italy, Indonesia	EU	CEE 7	IEC60320 C13	100-250VAC	16A

ⓘ **Notice:**
- Power cords are matched according to the delivery destination.

Switch performance

Table 4 shows performance specifications for the FS S5460C-14C switch.

Table 4. Performance specifications

FS P/N	S5460C-14C
Switching capacity	3.0 Tbps
Forwarding rate	4464 Mpps
Total number of MAC addresses	8,192
Total number of IPv4 routes (indirect routes)	61,440
Total number of IPv4 host routes (direct routes and ARP)	16,384
Total number of IPv6 routes (indirect routes)	4,096
Total number of IPv6 host routes (direct routes and NDP)	2,048
Total number of IPv4 multicast routes	2,048
Total number of IPv6 multicast routes	512
QoS ACL scale	4,590
Security ACL scale	2,877
VLAN IDs	4,094
STP virtual ports (port* VLANs) for MST	64
Total switched virtual interfaces (SVIs)	256
Jumbo frame	9,600

Platform benefits

Table 5 lists the software spotlights for the FS S5460C-14C switch.

Table 5. Software spotlights

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Functionality	Description
Security	• Support AAA, Radius, TACACS+, SSH, Dot1x, Console Login, Out-band/INBAND Login, local authentication fallback, Login Filter • NAC: 802.1X, MAC authentication • Enable or disable port security • Dynamic Address Resolution Protocol (ARP) inspection (DAI), IP Source Guard • Trust Port, ARP Packets Validity Checking, User Legitimacy Checking, ARP Inspection Access List • Support Control Plane Policing (COPP), Link-Flapping detection • Support CPU Traffic Protection, Storm Control and CPU load optimization features
Quality of Service	• Support 10 hardware queues per-port (8 unicast queues, 1 multicast queues, and 1 monitor queue) • Queue scheduler: SP, WRR/DR, WRRD • Traffic policing: guaranteed-rate, max-rate, Traffic classifier • Congestion avoidance: ECN
Access Control List	• Match field: destination-address-ipv4, destination-address-ipv6, destination-mac-address, destination-port, eth-type, first-fragment, ip-is-fragment, protocol, source-address-ipv4, source-address-ipv6, source-mac-address, source-port, time-range, vlan • ACL-based Traffic Policer • ACL-based QoS • ACL-based remarked
IP Routing	• IPv4/v6 Addressing, SVI, Routed interface • Support IPv4/IPv6 static routing, Same Next Hop Static Routes • Support RIP, RIPvng, OSPF v2/v3, Prefix-list, IS-IS • Route Map • Support BGP (Border Gateway Protocol), PBR (Policy-Based Routing)
IP Service	• IPv4 Basic Configuration • Address Resolution Protocol (ARP): Static ARP, Dynamic ARP, ARP Proxy • Dynamic Host Configuration Protocol (DHCP): DHCP server and DHCP client, DHCP relay and DHCP option 82, DHCPv6 Relay, DHCP snooping, DHCP snooping trust-port, DHCP Option252 • Equal-Cost Multipath Routing (ECMP): Max path, Load balancing, Symmetric • Virtual Routing and Forwarding (VRF): Base VRF, Management VRF and VRF Route Leaking • IPv6: IPv6 DHCP Relay, IPv6 NDP, IPv6 ECMP

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Ethernet Switching	• Ethernet Ports Management Configuration • Static MAC entries and Dynamic MAC Address Learning • Static Link Aggregation (LAG) Configuration • VLAN Port Mode: ACCESS, Trunk • VLAN: Port-based VLAN, MAC-based VLAN, Protocol-based VLAN • QinQ: Basic QinQ, Flexible QinQ, Selective QinQ • Private VLAN • Voice VLAN • Guest VLAN • Spanning Tree Protocol (STP): STP, RSTP, MSTP, BPDU Filter, BPDU Root Guard, BPDU TCN Guard, BPDU-Guard, Root Guard, Loop Guard, Edge port • Ethernet Ring Protection Switching (ERPS): ERPS • Unidirectional Link Detection (UDLD) • Loop Back Detection
High Availability	• Static BFD, Single-Hop BFD, Multi-Hop BFD, Dynamic BFD, BFD for BGP, BFD for OSPF Multi-Chassis Link Aggregation (MLAG) Virtual Router Redundancy Protocol (VRRP) v2/v3, VRRP Active-Active, preempt mode, priority, authentication, load-balance
Multicast	• IGMP v1/v2/v3 query • Protocol Independent Multicast-Sparse Mode (PIM-SM), Static RP, PIM Source-Specific Mode (PIM-SSM), MLD, PIM, PIM-DM • PIM-SM • IPv6 forwarding • Multicast VLAN Registration (MVR) • GMP Snooping v1/v2/v3, mrouter port, static group, unregistered flood
Device Management	• Hardware management: power supply, fan • Power-on diagnostics • Password Recovery procedure • Device configuration method: Manual configuration • Local file management, Configuration file management • File operations via FTP/TFTP/HTTP • Install from a local directory, Automatically install • Certificate Configuration • User management: console interface configuration, VTY interface configuration, Username, password, and permission configuration • User login: console, SSH, telnet • Time configuration: Manual time configuration, Network Time Protocol (NTP) • Domain Name System (DNS) • RMON, sFlow • Simple Network Management Protocol (SNMP)

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Product specifications

Table 6 shows the product specifications for the FS S5460C-14C switch.

Table 6. Product specifications

Description	S5460C-14C
Environmental	
Operating temperature	0 to 45ºC (32 to 133°F)
Storage temperature	-40 to 70ºC (-40 to 158°F)
Operating humidity	10 to 90% (Non-condensing)
Storage humidity	5 to 95% (Non-condensing)
Temperature alarm	Support temperature monitoring Lower_alarm -10 Upper_alarm 100 Critical_limit 110
Acoustic noise	62.67db
Physical specifications	
Dimensions (HxWxD)	1.73''x8.46''x 16.06'' (44x215x408mm)
Rack units (RU)	1RU
Weight	9.81lbs (4.45kg)
Electrical	
Voltage (auto ranging)	100-240V
Frequency	50-60HZ
Power rating (maximum consumption)	140W
Mean-time between failures	
MTBF (hours)	≥90,000
Connectors	
Connectors and cabling	• 1GBASE-T ports: RJ-45 connectors, 4-pair Cat5e/Cat6/Cat6a UTP cabling • SFP transceivers: LC fiber connectors (single-mode) • SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber)
Power connectors	• Customers can provide power to a switch by using the internal power at the back of the switch • Internal power supply connector: The internal power supply is an auto-ranging unit. It supports input voltages between 100 (115 for 1100WAC) and 240 VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet
Standards	
Standards	802.1s, 802.1w, 802.1x, 802.1ad, 802.1d, 802.1p, 802.1q, RMON, SNMP v1/v2/v3

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Quality certification

At FS, our Quality Commitment lies in all aspects of processes, resources, and methods that enable us to build superior networks for our customers. Through a quality policy focusing on the continuous improvement of products and services, we can achieve the highest levels of satisfaction for our customers. To that end, every FS employee is accountable for contributing to the value of the products and services we deliver.

Figure 3 shows some of the authoritative certifications obtained by FS S5460C-14C switch.



Figure 3.

Warranty, Service and Support

FS S5460C-14C switch enjoy a 5-year limited warranty against defects in materials or workmanship. For more information on FS Returns & Refunds policy, visit FS Product Warranty or FS Return Policy.

FS provides a personal account manager, free professional technical support, and 24/7 live customer service for each customer.

- Professional Lab: Test each product with the latest and advanced networking equipment.
- Free Technical Support: Provide free & tailored solutions and services for your businesses.
- 80% Same-day Shipping: Immediate shipping for in-stock items.
- Fast Response: Direct and immediate assistance from an expert.

For more information, visit FS Help Center.

Ordering Information

Table 8. Ordering information

FS P/N	Product description
Switch hardware	
S5460C-14C	S5460C-14C, 18-Port Ethernet L3 Half-Width Switch, 14 x 100Gb QSFP28, with 4 x 25G SFP28, AV over IP, Support MLAG

Additional information

For more information about the S5460C-14C switch, contact your account manager or visit http://www.fs.com/products/346095.html

Document History

New or revised topic	Described in	Date
Updates to FS S5460C-14C switch Data Sheet	Updated All	2025-08-28

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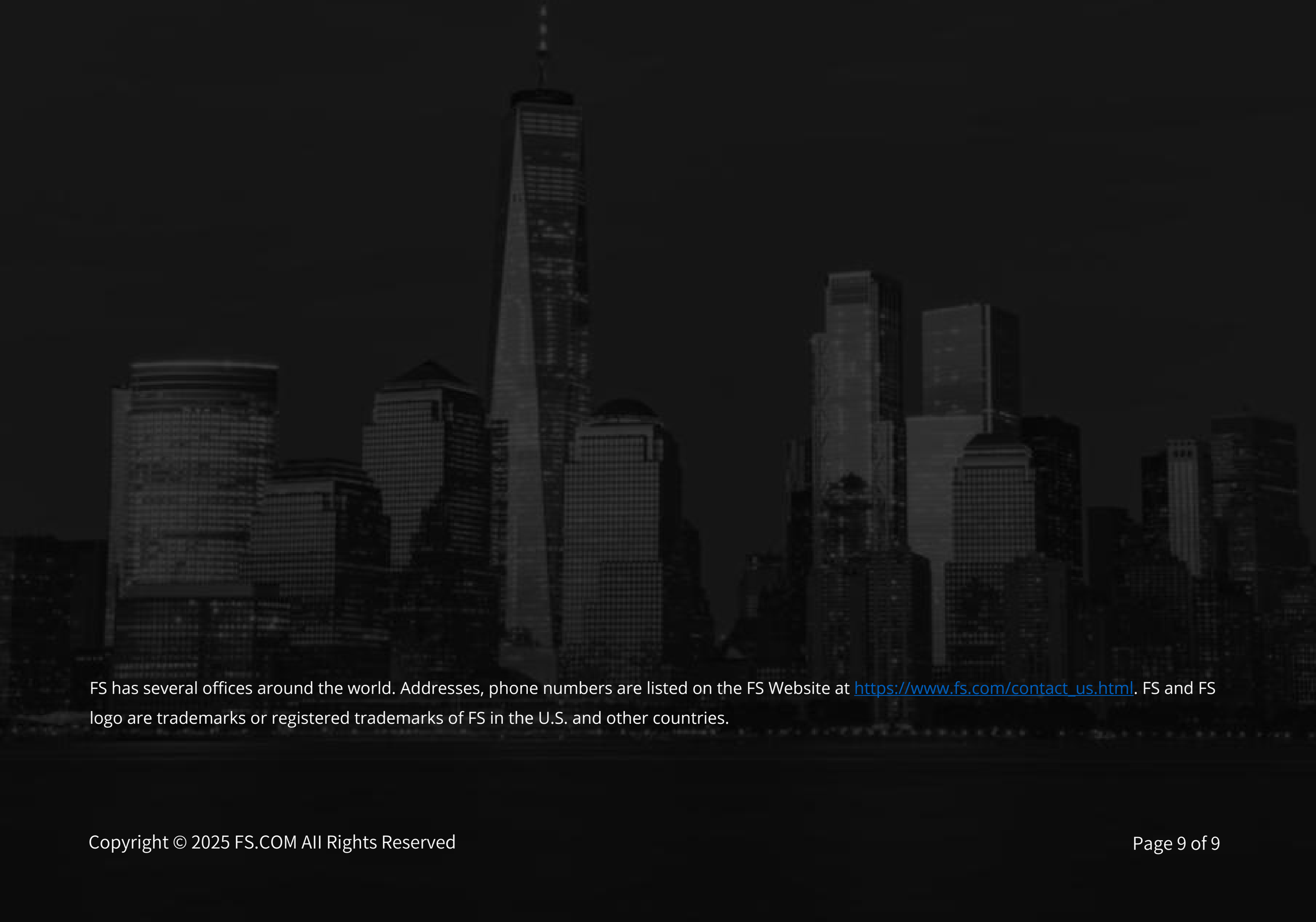
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