S3240 Series PicOS® Switches Data Sheet

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Product Overview

The S3240 Series PicOS® enterprise switches provide a cost-effective and efficient solution for enterprise campus deployments. Built on the Realtek RTL9301 chip, these switches offer flexible port configurations ranging from 8 to 24 ports, including 8 or 24× 10/100/1000BASE-T or 1G SFP access ports, along with 4× 10G SFP+ uplinks. Available in a compact 1U form factor, they deliver up to 128 Gbps of reliable switching capacity for seamless connectivity across access devices.

Some models of the S3240 series, such as the S3240-8P, S3240-8T and S3240-24T, feature a fanless design that ensures silent operation, lower cost, and reduced power consumption—ideal for compact and quiet workspaces. Additionally, the S3240-24F is equipped with redundant power supplies and fans for high availability, delivering reliable performance and efficient heat dissipation to support sustainable, low-carbon enterprise networks. S3240-24P features intelligent fan speed control scheme and silent design to create a green and energy-saving network.

With advanced Layer 2/3 features such as LACP, QoS, and Voice VLAN, the S3240 Series enables flexible and scalable network architectures, making it ideal for SMB, enterprise, midmarket, and branch office networks.

S3240-24F



❶ 8x RJ45/SFP Combo ❷ 16x 1G SFP ❸ 4x 10G SFP

S3240-8P



❶ 1 Power Supply ❷ CONSOLE ❸ 4x 1G/10G SFP+ ❹ 8x 10/100/1000BASE-T RJ45

S3240-24P



❶ 24x 10/100/1000BASE-T RJ45 ❷ CONSOLE ❸ 4x 1G/10G SFP+

S3240-8T



❶ 1 Power Supply ❷ CONSOLE ❸ 4x10G SFP+ ❹ 8x10/100/1000BASE-T RJ45

S3240-24T



❶ CONSOLE ❷ 24x 10/100/1000BASE-T RJ45 ❸ 4x 10G SFP+

Figure 1. S3240 Series Switches

Features and Benefits

Realtek Chip

Built on the Realtek RTL9301 chip, the S3240 series switches offer high-speed data transfer, low latency, and high throughput, enhancing performance for superior stability and reliability.

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PicOS® Operating System

The S3240 series switches run on the PicOS®. This unified operating system allows users to manage networks more efficiently and deploy new services more quickly, allowing all PicOS®-powered products to be updated simultaneously with the same software release. All features are fully regression tested, making each new release a true superset of the previous version.

Security

The S3240 series switches provide flexible and comprehensive user identity verification and access control through features such as ACLs, and DHCP Snooping, which effectively manage network access, enhance security, and optimize resource usage.

High Availability

The S3240 series switches are designed with a comprehensive set of high-availability features, such as redundant power supplies and fans, graceful protocol restart, Link Aggregation (LACP), , Spanning Tree Protocols (STP), and QoS, ensuring maximum uptime and reliable performance for mission-critical network operations.

Product Specifications

Physical Specifications

Table 1. Physical Specifications of S3240 Series Switches

FS P/N	S3240-8T	S3240-24T	S3240-24F
Description	8-Port Gigabit Ethernet L2+ Switch, 8x Gigabit RJ45, with 4x 10Gb SFP+ Uplinks, PicOS®, Fanless	24-Port Gigabit Ethernet L2+ Switch, 24x Gigabit RJ45, with 4x 10Gb SFP+ Uplinks, PicOS®, Fanless	24-Port Gigabit Ethernet L2+ Switch, 16x 1Gb SFP, 8x 1Gb RJ45/SFP Combo Ports, with 4x 10Gb SFP+ Uplinks, PicOS®
Port			
1G port density	8	24	24
Combo ports density	-	-	8
10G port density	4	4	4
Console port	1	1	1
Memory and processor			
Switch chip	Realtek RTL9301	Realtek RTL9301	Realtek RTL9301
CPU	RTL9301-CG	RTL9301-CG	RTL9301-CG
RAM	512MB	512MB	512MB
Flash memory	64MB	64MB	64MB
Max./Min. Latency	Max:7.1us Min:5.5us	max:7.1us min:5.5us	max:7.1us min:5.5us
Packet buffer	1.5MB	1.5MB	1.5MB
Mean-time between failures			
MTBF (hours)	＞200,000	>50000	>50000
Weight & Dimension			

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Weight	2.87 lbs (1.3kg)	8.76 lbs (3.975kg)	9.41 lbs (4.27kg)
Dimension	1.73''x11.02''x7.08'' (44x280x180mm)	1.73''x17.32''x7.09'' (44x440x180mm)	1.73''x17.32''x11.02'' (44x440x280mm)
Rack units (RU)	1 RU	1 RU	1 RU
Power supplies and fans			
Power supply	1 Built-in	2 Built-in	2 Built-in
Power-supply input receptacles	C13	C13	C13
Input-voltage range and frequency	AC: 100-240V, 50-60Hz DC: 12VDC	AC：100-240V，50/60Hz	AC：100-240V，50/60Hz
Input current	AC: 0.6A MAX DC: 1.25A MAX	AC：1.2A MAX	AC：1.2A MAX
Max. power consumption	15W	25W	41W
Fan number	Fanless	Fanless	2 Built-in Fans
Airflow	-	-	Left-to-Right
Acoustic noise	0dB	0dB	45dB
PoE standard	-	-	-
PoE budget	-	-	-
Environmental Ranges			
Operating temperature	0 to 45ºC (32 to 113°F)	0 to 50ºC (32 to 122°F)	0 to 50ºC (32 to 122°F)
Storage temperature	-40 to 70ºC (-40 to 158°F)	-20 to 70°C(4 to 158°F)	-20 to 70°C(4 to 158°F)
Operating humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Storage humidity	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)
Acoustic noise	0dB	0dB	40dB
Connectors			
Connectors and cabling	• 1/10GBASE-T ports: RJ-45 connectors, 4-pair Cat5E/Cat6/Cat6a UTP cabling • SFP transceivers: LC fiber connectors (single-mode or multimode fiber) • SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber) • FS StackWise stacking ports: copper-based FS StackWise cabling • Ethernet management port: RJ-45 connectors, 4-pair Cat5 UTP cabling • Management console port: RJ-45-to-DB9 cable for PC connections		

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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

Table 2. Physical Specifications of S3240 Series Switches

FS P/N	S3240-8P	S3240-24P
Description	8-Port Gigabit Ethernet L2+ PoE+ Switch, 8 x PoE+ Ports @120W, with 4 x 10Gb SFP+ Uplinks, PicOS®, Fanless	24-Port Gigabit Ethernet L2+ PoE+ Switch, 24 x PoE+ Ports @370W, with 4 x 10Gb SFP+ Uplinks, PicOS®
Port		
1G port density	12	28
Combo ports density	-	-
10G port density	4	4
Console port	1	1
Memory and processor		
Switch chip	Realtek RTL9301	Realtek RTL9301
CPU	RTL9301	RTL9301
RAM	512MB	512MB
Flash memory	64MB	64MB
Packet buffer	12MB	1.5MB
Mean-time between failures		
MTBF (hours)	＞200,000	＞200,000
Weight & Dimension		
Weight	3.53 lbs (1.6kg)	6.66 lbs (3.02kg)
Dimension	1.73''x11.02''x7.08'' (44x280x180mm)	1.73''x17.32''x8.19'' (44x440x208mm)
Rack units (RU)	1 RU	1 RU
Power supplies and fans		
Power supply	1 Built-in	2 Built-in
Power-supply input receptacles	C13	C13
Input-voltage range and frequency	AC: 100-240V, 50-60Hz	AC：100-240V，50/60Hz
Input current	2.5A MAX	6.5A MAX
Max. power consumption	17W（125W with PoE）	30W (425W with PoE）
Fan number	Fanless	2 Built-in

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Airflow	-	Front-to-Back
PoE standard	IEEE 802.3af/at	IEEE 802.3af/at
PoE budget	120W	370W
Environmental Ranges		
Operating temperature	0 to 45ºC (32 to 113°F)	0 to 45ºC (32 to 113°F)
Storage temperature	-40 to 70ºC (-40 to 158°F)	-40 to 70ºC (-40 to 158°F)
Operating humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Storage humidity	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)
Temperature alarm	Supported	Supported
Connectors		
Connectors and cabling	• 1/10GBASE-T ports: RJ-45 connectors, 4-pair Cat5E/Cat6/Cat6a UTP cabling • SFP transceivers: LC fiber connectors (single-mode or multimode fiber) • SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber) • FS StackWise stacking ports: copper-based FS StackWise cabling • Ethernet management port: RJ-45 connectors, 4-pair Cat5 UTP cabling • Management console port: RJ-45-to-DB9 cable for PC connections	
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	

ⓘ Notice:
- RJ45 ports (combo ports included) can be used as 10/100/1000BASE-T ports for Ethernet connection.
- SFP ports (combo ports included) can be used for 1G connection.
- SFP+ports can be used for 1/10G connection.

Table 3. Power Cord Information of S3240 Series Switches

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
China, Australia, New Zealand, Argentina	CN	GB16A	IEC60320 C13	100-250VAC	10A

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

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Software Specifications

Table 4. Software Specifications of S3240 Series Switches

Functionality	Description
High Availability	• IEEE 802.3ad Link Aggregation (LACP)
Security	• Access Control Lists (ACLs) • Enable or disable port security • DHCP Snooping
Device Management	• Zero touch provisioning (ZTP) • SNMP v1/v2/v3 • Syslog management • Dynamic Host Configuration Protocol（DHCP） • Web management • Command-Line Interface (CLI) • Link Layer Discovery Protocol (LLDP) • L2L3 Access Control • Hardware management of system FAN and PSU • Recover default configuration and password • System file management
Layer 2 Features	• Spanning Tree Protocol (STP) • Loopback Detection • VLAN Port Mode: ACCESS, Trunk, Hybrid • VLAN: Port-based VLAN, MAC Trace, MAC-based VLAN • Link Aggregation and Link Aggregation Control Protocol (LACP) (IEEE 802.3ad) • Static Link Aggregation (LAG) Configuration • Static MAC entries and Dynamic MAC Address Learning • Voice VLAN
Layer 3 Features	• IPv4/IPv6 static routing • Dynamic Host Configuration Protocol (DHCP) relay
Quality of Service	• Traffic policing: guaranteed-rate, max-rate, Traffic classifier • Queue scheduler: SP WRR WFQ
Multicast	• IGMP v2/v3 snooping • Mrouter port, static group, unregistered flood
Link Aggregation	• Link Aggregation Control Protocol（LACP）
Access Control List	• ACL-based Traffic Policer • ACL-based QoS • ACL-based remarked • Match field: destination-address-ipv4, destination-mac-address, destination-port, ethertype, first-fragment, ip, protocol, source-address-ipv4, source-mac-address, sourceport, time-range, vlan

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Troubleshooting	• Debugging: CLI via console • Traffic mirroring (port)

Platform Specifications

Table 5. Platform Specifications of S3240 Series Switches

FS P/N	S3240-8T	S3240-24T	S3240-24F
Performance specifications			
Switching capacity	96 Gbps	128 Gbps	128 Gbps
Forwarding rate	72 Mpps	96 Mpps	96 Mpps
Total number of MAC addresses	16K	16K	16K
VLAN IDs	4K	4K	4K
Hardware queues per port	8	8	8

Table 6. Platform Specifications of S3240 Series Switches

FS P/N	S3240-8P	S3240-24P
Performance specifications		
Switching capacity	96 Gbps	128 Gbps
Forwarding rate	72 Mpps	95.23 Mpps
Total number of MAC addresses	16K	16K
VLAN IDs	4K	4K
Jumbo frame	9K	12K
Hardware queues per port	8	8

Standards Compliance

IEEE Standards

- IEEE 802.1D
- IEEE 802.1w
- IEEE 802.1Q
- IEEE 802.1p
- IEEE 802.3ad
- IEEE 802.1AB
- IEEE 802.3x
- IEEE 802.1Qbb
- IEEE 802.1Qaz
- IEEE 802.1X
- IEEE 802.1ah

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- IEEE 802.3ab
- IEEE 802.3bz
- IEEE 802.3ae
- IEEE 802.3by
- IEEE 802.3ba
- IEEE 802.3af
- IEEE 802.3at

RFC – SPECIFIED MIBs

- RFC 1155 SMIv1
- RFC 1213 MIB II
- RFC 1905 Protocol Operations for SNMPv2
- RFC 1906 Transport Mappings for SNMPv2
- RFC 1907 Management Information Base for SNMPv2
- RFC 1908 Coexistence between SNMPv1 and SNMPv2
- RFC 2233 The Interface Group MIB using SNMPv2
- RFC 2578 SMIv2
- RFC 2579 SNMPv2-TC
- RFC 2580 SNMPv2-CONF
- RFC 2863 IF-MIB
- RFC 3411 SNMP Framework
- Pica8 Private MIB

Safety and Compliance

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 continuous improvement of products and services, we're able to 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.

Warranty, Service and Support

FS S3240 Series Switches 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 6. Ordering information

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FS P/N	Product description
Switch hardware	
S3240-8P	S3240-8P, 8-Port Gigabit Ethernet L2+ PoE+ Switch, 8 x PoE+ Ports @120W, with 4 x 10Gb SFP+ Uplinks, PicOS®, Fanless
S3240-24P	S3240-24P, 24-Port Gigabit Ethernet L2+ PoE+ Switch, 24 x PoE+ Ports @370W, with 4 x 10Gb SFP+ Uplinks, PicOS®
S3240-8T	S3240-8T, 8-Port Gigabit Ethernet L2+ Switch, 8 x Gigabit RJ45, with 4 x 10Gb SFP+ Uplinks, PicOS®, Fanless
S3240-24T	S3240-24T, 24-Port Gigabit Ethernet L2+ Switch, 24 x Gigabit RJ45, with 4 x 10Gb SFP+ Uplinks, PicOS®, Fanless
S3240-24F	S3240-24F, 24-Port Gigabit Ethernet L2+ Switch, 16 x 1Gb SFP, 8 x 1Gb RJ45/SFP Combo Ports, with 4 x 10Gb SFP+ Uplinks, PicOS®

About FS

FS Inc. is a trusted provider of ICT products and solutions to enterprise customers worldwide. Established in 2009, the company focuses on HPC, Data Center, Enterprise, Telecom, providing tailored product development and solution design based on professional customer needs. Leveraging dedicated R&D and testing teams, comprehensive technical service experts, a robust supply chain system, globalized warehousing centers, and convenient shopping platform, FS delivers a wide range of highly efficient customer-centric ICT products, solutions and services to global vertical industry and enterprise customers across ISP, telecom, retail, education, etc. Through continuous technology innovation and brand partnership, FS products and solutions have served more than 900,000 users in over 200 countries.

Document History

New or revised topic	Described in	Date
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