

FS S3270 Series Switches Data Sheet

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Product overview

FS S3270 Series Switches are cost-effective 1G L2+ managed switch with ACL, DHCP and RIP for SOHO and SMBs. These series swithes are based on Broadcom® BCM53547.

The S3270-10TM 10-port switch is equipped with 10x 10/100/1000M RJ45 ports, 2x 2.5Gb SFP uplinks. and this switch delivers 30 Gbps switching capacity and 22.32 Mpps forwarding rate.

S3270-24TM 24-port switch is equipped with 24x 10/100/1000M RJ45 ports, 4x 2.5Gb SFP uplinks. and the switch delivers 68 Gbps switching capacity and 50.59 Mpps forwarding rate.

The S3270-10TM-P 10-port switch is equipped with 10x 10/100/1000M RJ45 ports, 2x 2.5Gb SFP uplinks. and this switch delivers 30 Gbps switching capacity and 22.32 Mpps forwarding rate.

S3270-24TM-P 24-port switch is equipped with 24x 10/100/1000M RJ45 ports, 4x 2.5Gb SFP uplinks. and the switch delivers 68 Gbps switching capacity and 50.59 Mpps forwarding rate.

S3270-48TM 48-port switch is equipped with 48x 10/100/1000M RJ45 ports, 4x 2.5Gb SFP uplinks. and delivers 116 Gbps switching capacity and 86.30 Mpps forwarding rate.

The S3270-10TM and S3270-24TM fanless design ensures noise-free switch operation, reduced cost, and power consumption.

S3270 series access switches delivers a compact, cost-effective solution for carrier's IP MAN and enterprise networks. Based on the high-performance hardware and FSOS platform, it supports functions such as ACL, QinQ and QoS. Its simple management mode and flexible installation can meet the requirement of any complicated scenario.

Product highlights

- Broadcom Chip, Support 2.5G SFP Uplinks
- Fanless Design, Always Working Silently
- Energy Efficient Design Compliant with IEEE 802.3az
- Support WEB/CLI/SNMP for Flexible Operation
- Support DHCP, Voice VLAN, LACP, RIP, OSPF, etc.
- Support ACL, 802.1X, CPP, NFPP, IP SOURCE GUARD, etc. for Security
- ≥10KV Lightning Protection, Innovative Anti-wave and Anti-surge Design

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Platform details

Switch models and configurations

Figures 1 through 5 show the FS S3270 series switches.

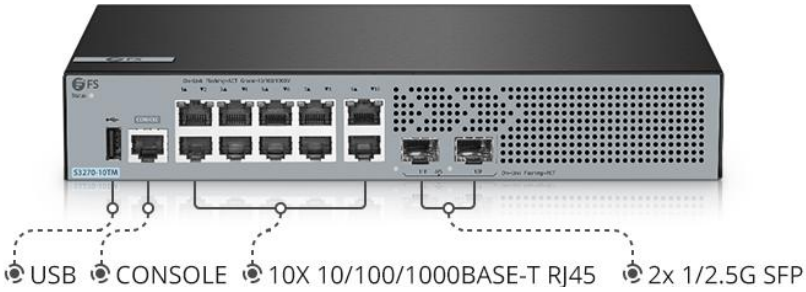


Figure 1.

S3270-10TM, 10-Port Ethernet L2+ Switch, 10 x 10/100/1000BASE-T RJ45, with 2 x 2.5G SFP, Broadcom Chip

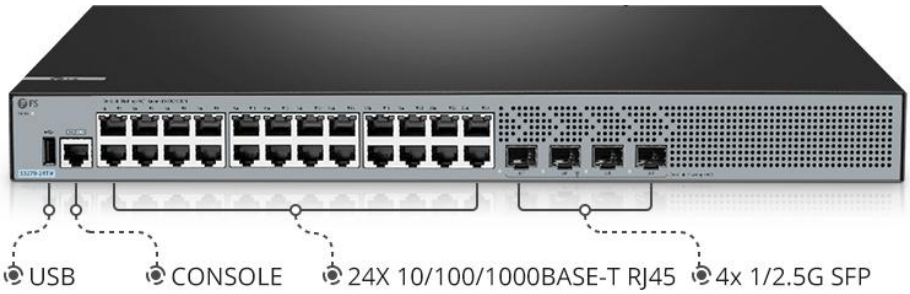


Figure 2.

S3270-24TM, 24-Port Ethernet L2+ Switch, 24 x 10/100/1000BASE-T RJ45, with 4 x 2.5G SFP, Broadcom Chip

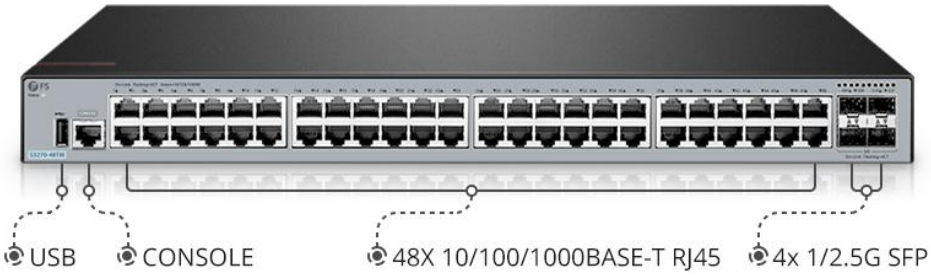


Figure 3.

S3270-48TM, 48-Port Ethernet L2+ Switch, 48 x 10/100/1000GBASE-T RJ45, with 4 x 2.5G SFP, Broadcom Chip

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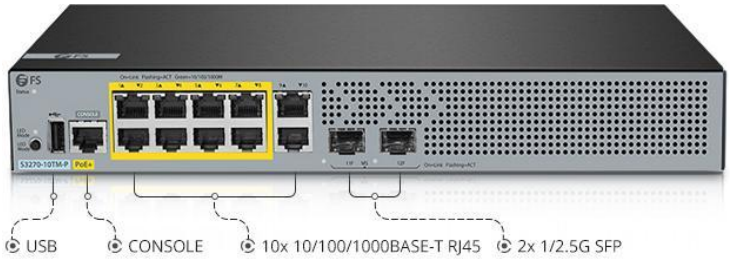


Figure 4.

S3270-10TM-P, 10-Port Ethernet L2+ Switch, 10 x 10/100/1000BASE-T RJ45, with 2 x 2.5G SFP, Broadcom Chip

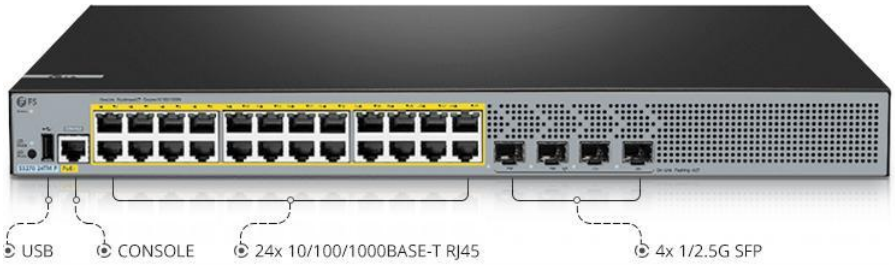


Figure 5.

S3270-24TM-P, 24-Port Ethernet L2+ Switch, 24 x 10/100/1000BASE-T RJ45, with 4 x 2.5G SFP, Broadcom Chip

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Switch configurations and port density

Table 1 shows the FS S3270 series configurations and port density.

Table 1. Switch configuration and port density

FS P/N	S3270-10TM	S3270-24TM	S3270-48TM
Description	10-Port Gigabit Ethernet L2+ Switch, 10 x Gagibat RJ45, with 2 x 2.5Gb SFP Uplinks	24-Port Gigabit Ethernet L2+ Switch, 24 x Gagibat RJ45, with 4 x 2.5Gb SFP Uplinks	48-Port Gagibat Ethernet L2+ Switch, 48 x Gagibat RJ45, with 4 x 2.5Gb SFP Uplinks
Port			
1G port density	12	28	52
2.5G port density	2	4	4
Console port	1	1	1
USB port	1	1	1
Memory and processor			
Switch chip	BCM53547	BCM53547	BCM53547
CPU	ARM A9 Single-Core CPU, 1.6GHz	ARM A9 Single-Core CPU, 1.6GHz	ARM A9 Single-Core CPU, 1.6GHz
SDRAM	512MB	512MB	512MB
Flash memory	64MB	64MB	64MB
Latency	4.2μs	4.2μs	4.2μs
Packet buffer	512KB	512KB	512KB

Note:

RJ45 ports can be used as 10/100/1000M ports for Ethernet connection.
SFP ports can be used for 1/2.5G connection.

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Switch configurations and port density

Table 2 shows the FS S3270 POE+ series configurations and port density.

Table 2. Switch configuration and port density

FS P/N	S3270-10TM-P	S3270-24TM-P
Description	10-Port Gigabit Ethernet L2+ Switch, 10 x Gagibat RJ45, with 2 x 2.5Gb SFP Uplinks	24-Port Gigabit Ethernet L2+ Switch, 24 x Gagibat RJ45, with 4 x 2.5Gb SFP Uplinks
Port		
1G port density	12	28
2.5G port density	2	4
Console port	1	1
USB port	1	1
Memory and processor		
Switch chip	BCM53547	BCM53547
CPU	ARM A9 Single-Core CPU, 1.6GHz	ARM A9 Single-Core CPU, 1.6GHz
SDRAM	512MB	512MB
Flash memory	64MB	64MB
Latency	4.2μs	4.2μs
Packet buffer	512KB	512KB

Note:

RJ45 ports can be used as 10/100/1000M ports for Ethernet connection.
SFP ports can be used for 1/2.5G connection.

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Power supplies and fans

The FS S3270 Series switches ship with the single AC power supply as default.

Table 3 provides more details on the FS S3270 series power supplies and fan specifications.

Table 3. Power supply and fan specifications

Description	S3270-10TM	S3270-24TM	S3270-48TM
Power supply	Single power supply (AC)	Single power supply (AC)	Single power supply (AC)
Fan number	Fanless	Fanless	2x Smart Fans
Airflow	-	-	Left-to-Right
Acoustic noise	-	-	≤37dB
Maximum fan speed	-	-	6800rpm
Max. power consumption	<15.6W	<15.6W	<30W
Power max rating	25W	25W	40W
Input-voltage range and frequency	• Rated voltage range: 100-240VAC; 50-60Hz • Maximum voltage range: -AC input: 90-264VAC; 50-60Hz		
Power supply efficiency	81% (220Vac 100% load)	81% (220Vac 100% load)	80% (220Vac 100% load)
Input current	0.6A	0.6A	1.5A
Output ratings	Main output: 12V 2.2A	Main output: 12V 2.2A	Main output: 12V 3.3A
Output holdup time	20ms	20ms	20ms
Power-supply input receptacles	C13	C13	C13
Power cord rating	10A	10A	10A

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Power supplies and fans

The FS S3270 Series switches ship with the single AC power supply as default.

Table 4 provides more details on the FS S3270 POE+ series power supplies and fan specifications.

Table 4. Power supply and fan specifications

Description	S3270-10TM-P	S3270-24TM-P
Power supply	Single power supply (AC)	Single power supply (AC)
Fan number	1 Smart Fan	2x Smart Fans
Airflow	Left/Right-to-behind	Left-to-Right
Acoustic noise	≤37dB	≤39dB
Maximum fan speed	6800rpm	6800rpm
Max. power consumption	<141W	<403W
Power max rating	150W	460W
Input-voltage range and frequency	• Rated voltage range: 100-240VAC; 50-60Hz • Maximum voltage range: -AC input: 90-264VAC; 50-60Hz	
Power supply efficiency	90% (220Vac 100% load)	92% (220Vac 50%-100% load)
Input current	3A	6A
Output ratings	Main output: 54.5V 2.76A	Main output: 56V 8.22A
Output holdup time	20ms	10ms
Power-supply input receptacles	C13	C13
Power cord rating	10A	10A
PoE standard	PoE+	PoE+
PoE power budget	125W	370W

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Switch performance

Table 5 shows performance specifications for the FS S3270 series switches.

Table 5. Performance specifications

Performance for all S3270 Series Switches	S3270-10TM	S3270-24TM	S3270-48TM
Switching capacity	30 Gbps	68 Gbps	116 Gbps
Forwarding rate	22.32 Mpps	50.59 Mpps	86.30 Mpps
Total number of MAC addresses	16000	16000	16000
Total number of IPv4 routes (indirect routes)	64	64	64
Total number of IPv6 routes (indirect routes)	64	64	64
QoS ACL scale	500	500	500
Security ACL scale	500	500	500
VLAN IDs	4094	4094	4094
STP virtual ports (port* VLANs) for MST	64	64	64
Total switched virtual interfaces (SVIs)	31	31	31
Jumbo frame	9216 bytes	9216 bytes	9216 bytes

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Switch performance

Table 6 shows performance specifications for the FS S3270 POE+ series switches.

Table 6. Performance specifications

Performance for all S3270 Series Switches	S3270-10TM-P	S3270-24TM-P
Switching capacity	30 Gbps	68 Gbps
Forwarding rate	22.32 Mpps	50.59 Mpps
Total number of MAC addresses	16000	16000
Total number of IPv4 routes (indirect routes)	64	64
Total number of IPv6 routes (indirect routes)	64	64
QoS ACL scale	500	500
Security ACL scale	500	500
VLAN IDs	4094	4094
STP virtual ports (port* VLANs) for MST	64	64
Total switched virtual interfaces (SVIs)	31	31
Jumbo frame	9216 bytes	9216 bytes

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Platform benefits

Table 7 lists the software spotlights for the FS S3270 series switches.

Table 7. Software spotlights

Functionality	Description
MAC address	Address filtering Static addresses MAC address capacity: 16000
IEEE 802.1Q VLAN	802.1Q VLAN capacity: 4000 Port-based VLAN Voice VLAN
Link Aggregation	Load balancing mode configurable LACP
Mirroring	Common service ports and aggregated ports can be configured as the source and destination ports of mirroring One-to-many mirroring, many-to-one mirroring, RSPAN
DHCP	DHCP server DHCP client DHCP snooping DHCP relay
Security Features	Filtering of invalid MAC addresses Hardware CPP, NFPP IP source guard IEEE 802.1X authentication
IP Routing	Static routing, RIP, and OSPF
ACL	Standard IP ACLs (IP-based hardware ACLs) Extended IP ACLs (hardware ACLs based on IP addresses or TCP/UDP port IDs) MAC-based extended ACLs (ACLs based on source MAC addresses or destination MAC addresses) ACL 80 Global ACLs ACL redirection
QoS	Flow-based rate limiting on the ingress Port rate limiting IEEE 802.1p/DSCP traffic classification Eight priority queues per port SP, WRR, DRR, SP+WFQ, SP+WRR, SP+DRR queue scheduling
EEE	IEEE 802.3az compliant
Management Features	SNMP, CLI (telnet/console), syslog/debug, NTP, TFTP, Web, MACC public cloud

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Product specifications

Table 8 shows the product specifications for the FS S3270 series switches.

Table 8. Product specifications

Description	S3270-10TM	S3270-24TM	S3270-48TM
Environmental			
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
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)
Temperature alarm	Supported	Supported	Supported
Acoustic noise	-	-	≤37dB
Physical specifications			
Dimensions (HxWxD)	1.75"x10.24"x6.69" (44.5x260x170mm)	1.71"x17.32"x8.66" (43.5x440x220mm)	1.71"x17.32"x8.66" (43.5x440x220mm)
Rack units (RU)	1 RU	1 RU	1 RU
Weight	4.41 lbs (2kg)	5.51 lbs (2.5kg)	6.17 lbs (2.8kg)
Electrical			
Voltage (auto ranging)	100-240VAC	100-240VAC	100-240VAC
Frequency	50-60Hz	50-60Hz	50-60Hz
Current	0.6A Max	0.6A Max	0.6A Max
Power rating (maximum consumption	25W	25W	40W
Mean-time between failures			
MTBF (hours)	>200000	>200000	>200000

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Description	S3270-10TM	S3270-24TM	S3270-48TM
Connectors			
Connectors and cabling	• 1GBASE-T ports: RJ-45 connectors, 4-pair Cat5E/Cat6/Cat6a UTP cabling • 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 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, SNMPV1 V2 V3		

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Product specifications

Table 9 shows the product specifications for the FS S3270 POE+ series switches.

Table 9. Product specifications

Description	S3270-10TM-P	S3270-24TM-P
Environmental		
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
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
Acoustic noise	≤37dB	≤39dB
Physical specifications		
Dimensions (HxWxD)	1.75"x11.69"x6.69" (44.5×297×170mm)	1.71"x17.32"x11.49" (43.6×440×292mm)
Rack units (RU)	1RU	1RU
Weight	5.51 lbs (2.5kg)	6.17 lbs (2.8kg)
Electrical		
Voltage (auto ranging)	100-240VAC	100-240VAC
Frequency	50-60Hz	50-60Hz
Current	3A Max	6A Max
Power rating (maximum consumption	150W	460W
Mean-time between failures		
MTBF (hours)	>200000	>200000

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Description	S3270-10TM-P	S3270-24TM-P
Connectors		
Connectors and cabling	• 1GBASE-T ports: RJ-45 connectors, 4-pair Cat5E/Cat6/Cat6a UTP cabling • 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 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, SNMPV1 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 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.

Figures 6 shows some of the authoritative certifications obtained by FS S3270 Series Switches.



Figure 6.

Warranty, service and support

FS S3270 Series Switches enjoy 5 years limited warranty against defects in materials or workmanship. For more information for FS Returns & Refunds policy, visit https://www.fs.com/policies/warranty.html or https://www.fs.com/policies/day_return_policy.html

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

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For more information, visit https://www.fs.com/service/fs_support.html

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Ordering information

Table 10 provides the ordering information for S3270 series switches.

Table 10. Ordering information

FS P/N	Product description
Switch hardware	
S3270-10TM	S3270-10TM, 10-Port Gigabit Ethernet L2+ Switch, 10 x Gigabit RJ45, with 2 x 2.5Gb SFP Uplinks, Broadcom Chip, Fanless
S3270-24TM	S3270-24TM, 24-Port Gigabit Ethernet L2+ Switch, 24 x Gigabit RJ45, with 4 x 2.5Gb SFP Uplinks, Broadcom Chip, Fanless
S3270-48TM	S3270-48TM, 48-Port Gigabit Ethernet L2+ Switch, 48 x Gigabit RJ45, with 4 x 2.5Gb SFP Uplinks, Broadcom Chip
S3270-10TM-P	S3270-10TM-P, 10-Port Gigabit Ethernet L2+ PoE+ Switch, 10 x PoE+ Ports @125W, with 2 x 2.5Gb SFP Uplinks, Broadcom Chip
S3270-24TM-P	S3270-24TM-P, 24-Port Gigabit Ethernet L2+ PoE+ Switch, 24 x PoE+ Ports @370W, with 4 x 2.5Gb SFP Uplinks, Broadcom Chip

Additional information

For more information about the S3270 Series Switches, contact your account manager or visit https://www.fs.com/search_result?keyword=S3270

Document history

New or revised topic	Described in	Date
Updates to FS S3270 Series Switches Data Sheet	Updated all	11/21/2022
Updates to FS S3270 Series Switches Data Sheet	Updated all	12/6/2022

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