FS S1900 Series Switches Data Sheet

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Product overview

FS S1900 Series Gigabit Ethernet Unmanaged (PoE) Switches provide a seamless network connection, all ports support Auto MDI/MDIX function. With the 10/100/1000Mbps Auto-Negotiation RJ45 ports, the switches are an ideal choice to promote the performance of the department and working group, can provide a high-performance network applicable solution in simple, economical and standard ways. .

S1900-16TP Gigabit Ethernet L2 Unmanaged PoE+ Switch provides a seamless network connection, all ports support Auto MDI/MDIX function. With 16x 10/100/1000Mbps Auto- Negotiation RJ45 ports, the switch is an ideal choice to promote the performance of the department and working group, can provide a high-performance network applicable solution in simple, economical and standard ways. With the PoE+ ports, it can automatically detect and supply power with those IEEE 802.3af/at compliant Powered Devices (PD) such as AP, IP Cameras or IP Phones, etc., can meet the small and medium-sized enterprises, intelligent community, hotels, parks and office network and access requirements.

The S1900-8TP 8-port Gigabit Ethernet Unmanaged PoE+ Switch provides 8x 10/100/1000Mbps Auto-Negotiation RJ45 ports, it can be used to link bandwidth higher upstream equipment. This switch is a design of high integration level, easy to operate, which is suitable for security monitoring and Wi-Fi hotspot layout. With eight PoE+ ports, it can automatically detect and supply power with those IEEE 802.3af/at compliant Powered Devices (PD) such as AP, IP Cameras or IP Phones, etc. office network without power line layout restrictions, can meet the small and medium-sized enterprises, intelligent community, hotels, parks and office network and access requirements.

The S1900-5TP 5-port Gigabit Ethernet Multi-Mode Unmanaged PoE+ Switch provides a seamless network connection, which integrates 1000Mbps Ethernet and 10/100Mbps Ethernet network capabilities. There are 4 Power Sourcing Equipment (PSE) on the switch, which can give power to IEEE802.3af/at Compliant Powered Devices(PD). And the switch also can be switched to a Normal VLAN mode and Monitoring VLAN mode manually. With high integration level, exquisite, easy to operate and portable features, the switch is suitable for the household and office network environment with small or middle scale. It is an ideal choice to promote the performance of the department and working group, can provide a high-performance network applicable solution in simple, economical and standard ways.

The S1900-8T Gigabit Ethernet unmanaged switch provides a seamless network connection, all ports support Auto MDI/MDIX function. With 8x 10/100/1000Mbps Auto-Negotiation RJ45 ports, the switch can upgrade your old network to a low-cost, easy-to-use, high performance 1000Mbps network. With easy to install and use features, the switch is suitable for expanding your home or office network. The LED on the front panel can dynamically display the operation status of the network.

The S1900-5T Gigabit Ethernet unmanaged switch provides a seamless network connection, all ports support Auto MDI/MDIX function. With 5x 10/100/1000Mbps Auto-Negotiation RJ45 ports, the switch can upgrade your old network to a low-cost, easy-to-use, high performance 1000Mbps network. With easy to install and use features, the switch is suitable for expanding your home or office network. The LED on the front panel can dynamically display the operation status of the network.

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Product overview

The S1900-24T Gigabit Ethernet L2 unmanaged switch provides a seamless network connection, all ports support Auto MDI/MDIX function. With 24x 10/100/1000Mbps Auto-Negotiation RJ45 ports, the switch can upgrade your old network to a low-cost, easy-to-use, high performance 1000Mbps network. With the 6KV professional integrated lightening protection circuit, ensuring the switch to run stably, it is the ideal choice for extension, or upgrade to high-speed and stable gigabit wired network.

The S1900-16T Gigabit Ethernet L2 unmanaged switch provides a seamless network connection, all ports support Auto MDI/MDIX function. With 16x 10/100/1000Mbps Auto-Negotiation RJ45 ports, the switch can upgrade your old network to a low-cost, easy-to-use, high performance 1000Mbps network. With the 6KV professional integrated lightening protection circuit, ensuring the switch to run stably, it is the ideal choice for extension, or upgrade to high-speed and stable gigabit wired network.

Product highlights

- Plug and Play, No Configuration Needed
- 16x 10/100/1000Mbps Auto-Negotiation RJ45 Ports（Only for S1900-16TP / S1900-16T Switches）
- 24x 10/100/1000Mbps Auto-Negotiation RJ45 Ports（Only for S1900-24T Switch）
- 5x 10/100/1000Mbps Auto-Negotiation RJ45 Ports（Only for S1900-5TP / S1900-5T Switches）
- 8x 10/100/1000Mbps Auto-Negotiation RJ45 Ports（Only for S1900-8TP / S1900-8T Switches）
- Fanless Design, Always Working Silently（Only for S1900-16T / S1900-8T / S1900-24T / S1900-5TP / S1900-5TP Switches）
- 16 PoE+ Ports with 135W Total Power Budget（Only for S1900-16TP Switch）
- 4 PoE+ Ports with 60W Total Power Budget（Only for S1900-5TP Switch）
- 8 PoE+ Ports with 140W Total Power Budget（Only for S1900-8TP Switch）
- Support Port Auto MDI/MDIX
- Energy Efficient Design Compliant with IEEE 802.3az（Only for S1900-8T / S1900-5TP / S1900-8TP / S1900-5T Switches）
- Durable Metal Casing, Desktop or Rackmount Options（Only for S1900-16TP / S1900-24T / S1900-8TP Switches）
- Durable Metal Casing, Desktop or Wall-Mount Options（Only for S1900-16T / S1900-8T / S1900-5TP / S1900-5T Switches）
- Double Lightning Protection to Ensure Stable Data Transmission（Only for S1900-16TP / S1900-24T Switches）
- Port Lightning Protection to Ensure Stable Data Transmission（Only for S1900-16T Switch）

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Platform details

Switch models and configurations

Figures 1 through 7 show the FS S1900 series switches.

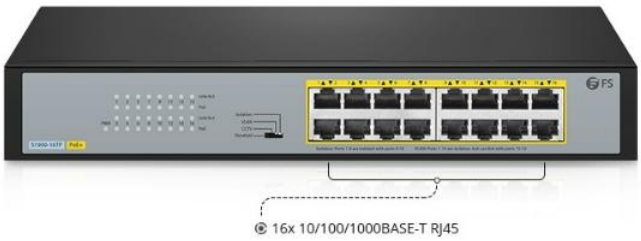

Figure 1.
S1900-16TP, 16-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 16 x PoE+ Ports@135W, Metal, Fanless, Desktop/Rackmount

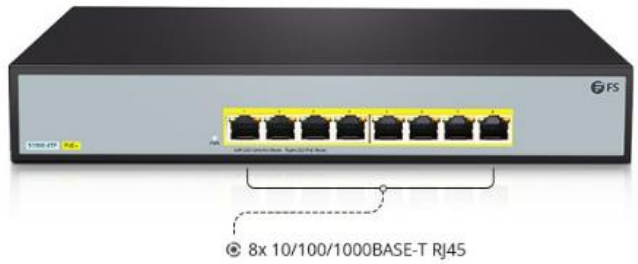

Figure 2.
S1900-8TP, 8-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 8 x PoE+ Ports @140W, Metal, Desktop/RackMount

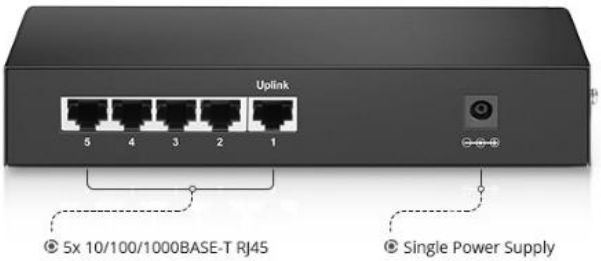

Figure 3.
S1900-5TP, 5-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch,4 x PoE+ Ports @60W, Metal, Fanless, Desktop/Wall-Mount

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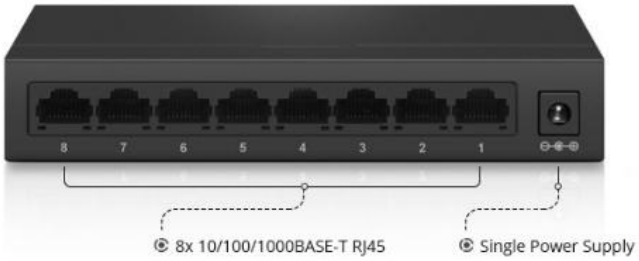

Figure 4.

S1900-8T, 8-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount

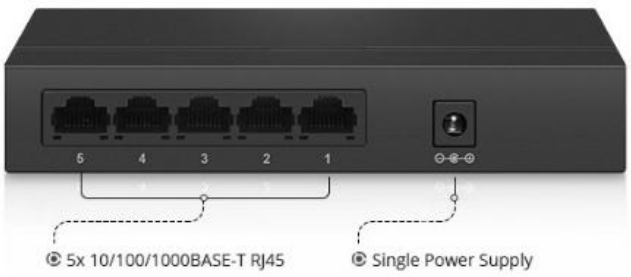

Figure 5.

S1900-5T, 5-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount

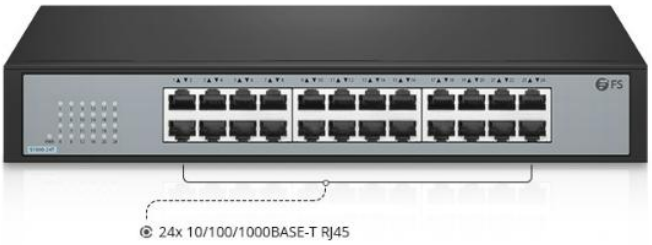

Figure 6.

S1900-24T, 24-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Rackmount

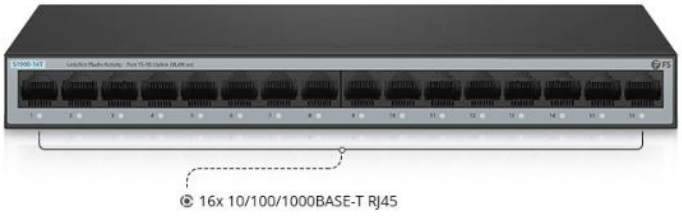

Figure 7.

S1900-16T, 16-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount

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Switch configurations and port density

Table 1 shows the FS S1900 series (PoE) configurations and port density.

Table 1. Switch configuration and port density

FS P/N	S1900-16TP	S1900-8TP	S1900-5TP
Description	S1900-16TP, 16-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 16 x PoE+ Ports@135W, Metal, Fanless, Desktop/Rackmount	S1900-8TP, 8-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 8 x PoE+ Ports @140W, Metal, Desktop/RackMount	S1900-5TP, 5-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch,4 x PoE+ Ports @60W, Metal, Fanless, Desktop/Wall-Mount
Port			
1G port density	16	8	5
Memory and processor			
Switch chip	-	RTL 8370N-VB-CG	RTL 8367N-VB-CG
Flash memory	-	（EEPROM）AT24C08 /8Kbit	（EEPROM）LR24C02D/2Kbit
Packet buffer	0.25MB	0.5MB	0.19MB

Note:

RJ45 ports can be used as 10M/100M/1000M ports for Ethernet connection.

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Switch configurations and port density

Table 2 shows the FS S1900 series (Without PoE) configurations and port density.

Table 2. Switch configuration and port density

FS P/N	S1900-24T	S1900-16T	S1900-8T	S1900-5T
Description	S1900-24T, 24-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Rackmount	S1900-16T, 16-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount	S1900-8T, 8-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount	S1900-5T, 5-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount
Port				
1G port density	24	16	8	5
Memory and processor				
Switch chip	-	-	RTL 8367N-VB-CG	RTL 8367N-VB-CG
Flash memory	-	-	（EEPROM） HE24C16SOH /16Kbit	（EEPROM） HE24C16SOH/16Kbit
Packet buffer	0.25MB	0.25MB	0.19MB	0.125MB

Note:

RJ45 ports can be used as 10M/100M/1000M ports for Ethernet connection.

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Power supplies and fans

Table 3 provides more details on the FS S1900 series (PoE) power supplies and fan specifications.

Table 3. Power supply and fan specifications

Description	S1900-16TP	S1900-8TP	S1900-5TP
Power supply	Single power supply	Single power supply	Single power supply
Fan number	0	1x Built-in Fan	0
Acoustic noise	No	-	No
Maximum fan speed	-	4000rpm	-
Max. power consumption	150W	165.4W	66.1W
Input-voltage range and frequency	100-240VAC; 50-60Hz	100-240VAC, 50-60Hz,150W Internal Power	DC 51V
Power supply efficiency	-	85%	85%
Input current	2A	2.5A	1.25A
Output ratings	135W	140W	60W
PoE standard	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
PoE power budget	135W	140W	60W

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Power supplies and fans

Table 4 provides more details on the FS S1900 (Without PoE) series power supplies and fan specifications.

Table 4. Power supply and fan specifications

Description	S1900-24T	S1900-16T	S1900-8T	S1900-5T
Power supply	Single power supply	Single power supply	Single power supply	Single power supply
Fan number	0	0	0	0
Acoustic noise	No	No	No	No
Max. power consumption	13W	12W	3.1W (DC 5V)	1.9W (DC 5V)
Input-voltage range and frequency	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz	5VDC	5VDC
Power supply efficiency	-	90%	73%	73%
Input current	0.7A	0.4A	1A	1A
Output ratings	12V 2A	12V 1A	5V 1A	5V 1A

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Switch performance

Table 5 shows performance specifications for the FS S1900 (PoE) series switches.

Table 5. Performance specifications

Performance for S1900 Series (PoE) Switches	S1900-16TP	S1900-8TP	S1900-5TP
Switching capacity	32 Gbps	15.625 Gbps	10 Gbps
Forwarding rate	23.6 Mpps	11.904 Mpps	7.44 Mpps
Total number of MAC addresses	8000	4000	2000
Jumbo frame	10000 Bytes	9000 Bytes	9000 Bytes

Table 6 shows performance specifications for the FS S1900 (Without PoE) series switches.

Table 6. Performance specifications

Performance for S1900 Series (Without PoE) Switches	S1900-24T	S1900-16T	S1900-8T	S1900-5T
Switching capacity	48 Gbps	32 Gbps	16 Gbps	10 Gbps
Forwarding rate	35.7 Mpps	23.6 Mpps	11.9 Mpps	7.44 Mpps
Total number of MAC addresses	8000	8000	4000	2000
Jumbo frame	10000 Bytes	10000 Bytes	9000 Bytes	9000 Bytes

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Platform benefits

Table 7 lists the software spotlights for the FS S1900 series (PoE) switches.

Table 7. Software spotlights

Functionality	Description
High Availability And Multi-Service Support	Plug and play, no configuration needed 16x 10/100/1000Mbps auto-negotiation RJ45 ports（Only for S1900-16TP Switch） 8x 10/100/1000Mbps auto-negotiation RJ45 ports（Only for S1900-8TP Switch） 5x 10/100/1000Mbps auto-negotiation RJ45 ports（Only for S1900-5TP Switch） Support port auto MDI/MDIX Double lightning protection to ensure stable data transmission（Only for S1900-16TP Switch） Fanless, noiseless design Prevent broadcast storm and defend against DHCP spoofing（Only for S1900-16TP Switch） Energy efficient design compliant with IEEE 802.3az（Only for S1900-8TP and S1900-5TP Switches） Durable metal casing, desktop or rackmount options（Only for S1900-8TP and S1900-5TP Switches） Support IEEE 802.3af/at standard
Error-Free Network Configuration	Support IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, standards and protocols The port cache is optimized（Only for S1900-16TP Switch） Support IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3az standards and protocols（Only for S1900-8TP and S1900-5TP Switches）

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Product specifications

Table 8 shows the product specifications for the FS S1900 series (PoE) switches.

Table 8. Product specifications

Description	S1900-16TP	S1900-8TP	S1900-5TP
Environmental			
Operating temperature	0 to 40ºC (32 to 104° F)	0ºC to 45ºC (32° F to 113° F)	0 to 40ºC (32 to 104° F)
Storage temperature	-40 to 70ºC (-40 to 158°F)	-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)	10% to 90% (Non-condensing)
Storage humidity	5% to 90% (Non-condensing)	5% to 90% (Non-condensing)	5% to 90% (Non-condensing)
Acoustic noise	No	-	No
Physical specifications			
Dimensions (HxWxD)	1.73''x11.57''x7.01'' (44x 294x178mm)	1.74''x11.02''x7.09'' (44x280x180mm)	1.10''x 6.38''x4.02'' (28x162x102mm)
Rack units (RU)	1 RU	1 RU	1 RU
Weight	-	8.38 lbs (3.8kg)	3.31 lbs (1.5kg)
Electrical			
Voltage (auto ranging)	100-240VAC	100-240VAC	51VDC
Frequency	50-60Hz	50-60Hz	50-60Hz
Current	2A Max	2.8A MAX	1.25A Max
Power rating (maximum consumption)	150W	165.4W	66.1W
Mean-time between failures			
MTBF (hours)	-	＞50000	＞50000

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Description	S1900-16TP	S1900-8TP	S1900-5TP
Connectors			
Connectors and cabling	10/100/1000BASE-T ports: RJ-45 connectors, 4-pair Cat5e/Cat6 UTP cabling		
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		• 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 of 51 VDC. Use the supplied DC power cord to connect the DC power connector to an DC power outlet
Standards			
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3az	

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Product specifications

Table 9 shows the product specifications for the FS S1900 (Without PoE) series switches.

Table 9. Product specifications

Description	S1900-24T	S1900-16T	S1900-8T	S1900-5T
Environmental				
Operating temperature	32° F to 104° F (0°C to 40°C)	32° F to 113° F (0°C to 45°C)	32° F to 104° F (0°C to 40°C)	32° F to 104° F (0°C to 40°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)	-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)	10% to 90% (Non-condensing)
Storage humidity	5% to 90% (Non-condensing)	5% to 90% (Non-condensing)	5% to 90% (Non-condensing)	5% to 90% (Non-condensing)
Acoustic noise	No	No	No	No
Physical specifications				
Dimensions (HxWxD)	1.73"x11.57"x7.01" (44x294x178mm)	1.06"x9.25"x4.06" (27x235x103mm)	1.10"x5.52"x2.99" (28x140x76mm)	1.10"x5.52"x2.99" (28x140x76mm)
Rack units (RU)	1 RU	1 RU	1 RU	1 RU
Weight	-	2.20 lbs (1.0kg)	1.10 lbs (0.5kg)	1.10 lbs (0.5kg)
Electrical				
Voltage (auto ranging)	100-240VAC	100-240VAC	5VDC	5VDC
Frequency	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Current	0.7A Max	0.4A Max	1A Max	1A Max
Power rating (maximum consumption)	13W	12W	3.1W	1.9W
Mean-time between failures				
MTBF (hours)	-	-	＞50000	＞50000

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Description	S1900-24T	S1900-16T	S1900-8T	S1900-5T
Connectors				
Connectors and cabling	10/100/1000BASE-T ports: RJ-45 connectors, 4-pair Cat5e/Cat6 UTP cabling			
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		• Customers can provide power to a switch by using the internal power of the switch • Internal power supply connector: The internal power supply is an auto-ranging unit. It supports input voltages of 5 VDC. Use the supplied DC power cord to connect the DC power connector to an DC power outlet	
Standards				
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x		IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3az	

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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 8 shows some of the authoritative certifications obtained by FS S1900 Series Switches.

Figure 8.

Warranty, service and support

FS S1900 Series Switches enjoy 2 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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- Free Technical Support: Provide free & tailored solutions and services for your businesses.
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- Fast Response: Direct and immediate assistance from an expert.

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 S1900 series switches.

Table 10. Ordering information

FS P/N	Product description
Switch hardware	
S1900-16TP	S1900-16TP, 16-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 16 x PoE+ Ports@135W, Metal, Fanless, Desktop/Rackmount
S1900-8TP	S1900-8TP, 8-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 8 x PoE+ Ports @140W, Metal, Desktop/RackMount
S1900-5TP	S1900-5TP, 5-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch,4 x PoE+ Ports @60W, Metal, Fanless, Desktop/Wall-Mount
S1900-24T	S1900-24T, 24-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Rackmount
S1900-16T	S1900-16T, 16-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount
S1900-8T	S1900-8T, 8-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount
S1900-5T	S1900-5T, 5-Port Gigabit Ethernet L2 Unmanaged Switch, Metal, Fanless, Desktop/Wall-Mount

Additional information

For more information about the S1900 Series Switches, contact your account manager or visit https://www.fs.com/search_result?keyword=S1900

Document history

New or revised topic	Described in	Date
Updates to FS S1900 Series Switches Data Sheet	Updated all	12/9/2022

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Birmingham (United Kingdom)

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