

A solid red circle.

FS Small Business Switches Product Portfolio

Overview

Whether you're managing an expanding office, a small business, retail stores, or distributed branches, reliable network connectivity is the critical backbone of your operations—yet complex deployments, high costs, and security vulnerabilities often divert focus from business growth to IT troubleshooting. The FS SMB switch series directly addresses these challenges with high-performance, smart managed Gigabit switches designed for growing businesses, delivering effortless deployment and exceptional value.

Engineered to effortlessly support bandwidth-intensive applications like video conferencing, cloud collaboration, and centralized monitoring, these switches ensure seamless connectivity across diverse environments. For noise-sensitive spaces like small offices or home workspaces, FS delivers plug-and-play,

fanless silent switches with zero configuration. Enjoy effortless network management through an intuitive interface, while leveraging up to 30W PoE+ ports (on select models) to centrally power wireless APs, security cameras, and IP phones—simplifying operations and reducing cable clutter with unified control.

Advanced built-in security features, such as VLAN isolation and access control lists (ACLs), proactively block unauthorized access and precisely control traffic. FS SMB Switches help you build secure, scalable networks—without the complexity. Easily segment your network to protect users, mobile devices, and IoT systems, while boosting performance as your business grows.

Product highlights

S3100 Series (Cloud Managed)

The S3100 series switch is a powerful L2+/Layer 3 Lite managed switch that ensures future-ready 5/10G performance and scalable, low-cost operation with all-optical Ethernet and FTTx architecture for education, business, hospitals, and office parks. Key features include:

- Broadcom BCM56150 Chip, Up to 8 PoE+ Ports, Total Budget 125W (Available on Select Models)
- Support Airware Cloud/WEB/CLI/SNMP/SSH for Flexible Operation
- Support DHCP, Voice VLAN, LACP, RIP, OSPFv3, etc.
- Support IEEE 802.1X, SSH, ACL, RADIUS, TACACS+, etc. for Security
- Fanless design, Operating Noise <35dB (Available on Select Models)
- Small Size Makes Installation Flexible and Quick
- Advanced Network Monitoring Using SFlow
- ≥8KV Lightning Protection, Innovative Anti-wave and Anti-surge Design

S2805S Series (Smart Managed)

The S2805S series switch is a high-performance Layer 2 smart management switch that provides reliable and cost-effective network solutions for retail, small businesses, and campus environments. Key features include:

- Up to 24 Gigabit PoE+ Ports, Total Budget 370W (Available on Select Models)
- Support SNMP/RMON/Telnet
- Support VLAN, ACL, QoS, etc.
- Supports QoS, Port Mirror, Link Aggregation Protocol
- Fanless design, Always Working Silently (Available on Select Models)
- LED Indicators for Monitoring Power, Link, Activity, Speed
- Comply with IEEE802.3i/3u/3x/3z, IEEE802.3ab/ad, IEEE802.1P/1Q Standards

S2500L Series (Unmanaged)

The S2500L series is a plug-and-play Layer 2 unmanaged switch offering simple, affordable connectivity solutions for SOHO offices, smart communities, and educational campuses with basic networking requirements. Key features include:

- Plug and Play, No Configuration Needed

- Support Port Auto MDI/MDIX
- 18 to 24x 10/100/1000Mbps Auto-Negotiation RJ45 Ports
- Fanless Design, Always Working Silently (Available on Select Models)
- 16 PoE+ Ports with 240W Total Power Budget (Available on Select Models)
- Energy Efficient Design Compliant with IEEE 802.3az
- Durable Metal Casing, Desktop or Rackmount Options

S1900 Series (Entry-Level)

The S1900 series is a cost-effective, plug-and-play Layer 2 unmanaged switch designed for hassle-free deployment in SOHO environments, smart communities, and small campus networks with limited IT support. Key features include:

- Plug and Play, No Configuration Needed
- Support Port Auto MDI/MDIX
- 5 to 16x 10/100/1000Mbps Auto-Negotiation RJ45 Ports
- Partially fanless Design, Always Working Silently
- 4 to 8 PoE+ Ports with 60W-140W Total Power Budget
- Energy Efficient Design Compliant with IEEE 802.3az (Available on Select Models)
- Durable Metal Casing, Desktop, Wall-Mount, or Rackmount Options
- Port Lightning Protection to Ensure Stable Data Transmission (Available on Select Models)

Management

Management Methods Comparison

Management	S3100 Series	S2805S Series	S2500L Series	S1900 Series
CLI Management	√	√	-	-
SSH Management	√	√	-	-
SNMP Management	√	√	-	-
Web Management	√	√	-	-
Airware Cloud Management	√	-	-	-

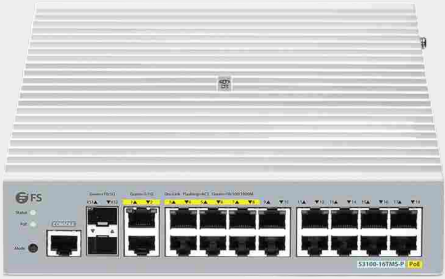
Features and Benefits

Management	Benefits
CLI Management	Commonly used in scenarios such as debugging, script automation, and batch management.
SSH Management	Suitable for scenarios that require remote operation and emphasize security.
SNMP Management	It is mainly used for remote unified monitoring and management of large and medium-sized networks, which can improve management convenience and visualization experience.
Web Management	Simple, centralized device control is possible, along with remote access and visual monitoring.
Airware Cloud Management	Supports large-scale, multi-site unified management, enabling remote operation and maintenance, configuration deployment and status monitoring of equipment.

Commercial-Grade Hardware

Hardware Specification Matrix

S3100 Series

Hardware Feature	 S3100-16TMS-P	 S3100-16TF-P	 S3100-16TF	 S3100-8TMS-P
Dimensions (HxWxD)	2.17"x8.27"x9.25" (55x210x235mm)	2.17"x8.27"x9.25" (55x210x235mm)	2.17"x8.27"x9.25" (55x210x235mm)	2.17"x8.27"x9.25" (55x210x235mm)
Weight	6.86 lbs (3.11kg)	6.06 lbs (2.75kg)	6.89 lbs (3.12kg)	6.83 lbs (3.1kg)
Ports	16x 10/100/1000BASE-T RJ45, 2x 1000M/2.5G/5GBASE-T RJ45, 2x 1/10G SFP+	16x 10/100/1000BASE-T RJ45, 2x 1G SFP	16x 10/100/1000BASE-T RJ45, 2x 1G SFP	8x 10/100/1000BASE-T RJ45, 2x 1000M/2.5G/5GBASE-T RJ45, 2x 1/10G SFP+
PoE Ports	8x PoE+	8x PoE+	-	8x PoE+
Switching Capacity	82 Gbps	36 Gbps	36 Gbps	76 Gbps
Forwarding Rate	61 Mpps	26.8 Mpps	26.8 Mpps	49.1 Mpps
Power supply	Single Power Supply	Single Power Supply	Single Power Supply	Single Power Supply
Fan number	Fanless	Fanless	Fanless	Fanless
Max. Power Consumption	150W	150W	25W	150W
PoE Budget	125W	125W	-	125W

S2805S Series

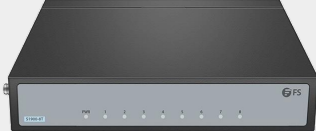
Hardware Feature	 S2805S-48T4S	 S2805S-24TF-P	 S2805S-24TF	 S2805S-8TF-P	 S2805S-8TF
Dimensions (HxWxD)	1.73"x17.32"x12.99" (44x440x330mm)	1.73"x17.32"x8.19" (44x440x208mm)	1.73"x17.32"x8.19" (44x440x208mm)	1.73"x11.02"x7.09" (44x280x180mm)	1.73"x11.02"x4.96" (44x280x126mm)
Weight	9.15 lbs (4.15kg)	8.8 lbs (4kg)	6.6 lbs (3kg)	5.3 lbs (2.4kg)	3.5 lbs (1.6kg)
Ports	48x 10/100/1000BASE-T RJ45, 4x 10G SFP+	24x 10/100/1000BASE-T RJ45, 4x 1G SFP	24x 10/100/1000BASE-T RJ45, 4x 1G SFP	8x 10/100/1000BASE-T RJ45, 2x 1G SFP	8x 10/100/1000BASE-T RJ45, 2x 1G SFP
PoE Ports	-	24x PoE+	-	8x PoE+	-
Switching Capacity	176 Gbps	56 Gbps	56 Gbps	20 Gbps	20 Gbps
Forwarding Rate	130.944 Mpps	41.66 Mpps	41.66 Mpps	14.88 Mpps	14.88 Mpps
Power Supply	Single Power Supply	Single Power Supply	Single Power Supply	Single Power Supply	Single Power Supply
Fan Number	2 Built-in Smart Fans	2 Built-in Smart Fans	Fanless	1 Built-in Smart Fan	Fanless

Max. Power Consumption	48W	430W	20W	163.2W	7.35W
PoE Budget	-	370W	-	140W	-

S2500L Series

Hardware Feature	 S2500L-24T	 S2500L-18T2F-P
Dimensions (HxWxD)	1.73"x11.02"x7.09" (44x280x180mm)	1.73"x17.32"x8.19" (44x 440x208mm)
Weight	4.74 lbs (2.15kg)	6.83 lbs (3.1kg)
Ports	24x 10/100/1000MBASE-T RJ45	18x 10/100/1000MBASE-T RJ45, 2x 1G SFP
PoE Ports	—	16x PoE+
Switching Capacity	48 Gbps	40 Gbps
Forwarding Rate	35.7 Mpps	29.76 Mpps
Power supply	Single Power Supply	Single Power Supply
Fan number	Fanless	2 Built-in Fans
Max. Power Consumption	16W	277W
PoE Budget	—	240W
Management Type	Unmanaged	Unmanaged
Mounting Options	Desktop and Rack	Desktop and Rack

S1900 Series

Hardware Feature	 S1900-16T	 S1900-8TP	 S1900-8T	 S1900-5TP	 S1900-5T
Dimensions (HxWxD)	1.06"x9.25"x4.06" (27x235x103mm)	1.74"x11.02"x7.09" (44x280x180mm)	1.10"x5.52"x2.99" (28x140x76mm)	1.10"x 6.38"x4.02" (28x162x102mm)	1.10"x5.52"x2.99" (28x140x76mm)
Weight	2.20 lbs (1.0kg)	8.38lbs (3.8kg)	1.10 lbs (0.5kg)	3.31lbs (1.5kg)	1.10 lbs (0.5kg)
Ports	16x 10/100/1000BASE-T RJ45	8x 10/100/1000BASE-T RJ45	8x 10/100/1000BASE-T RJ45	5x 10/100/1000BASE-T RJ45	5x 10/100/1000BASE-T RJ45
PoE Ports	-	8x PoE+	-	4x PoE+	-
Switching Capacity	32 Gbps	15.625 Gbps	16 Gbps	10 Gbps	10 Gbps
Forwarding Rate	23.6 Mpps	11.904 Mpps	11.9 Mpps	7.44 Mpps	7.44 Mpps
Power supply	Single Power Supply	Single Power Supply	Single Power Supply	Single Power Supply	Single Power Supply

Fan number	Fanless	1 Built-in Fan	Fanless	Fanless	Fanless
Max. Power Consumption	12W	165.4W	3.1W	66.1W	1.9W
PoE Budget	-	140W	-	60W	-
Management Type	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Unmanaged
Mounting Options	Desktop or Wallmount	Desktop or Rackmount	Desktop or Wallmount	Desktop or Wallmount	Desktop or Wallmount

Features and Benefits

Hardware Feature	Benefits
Dimensions (HxWxD)	Enables efficient space planning and compatibility with racks/desks.
Weight	Ensures safe handling and installation feasibility (e.g., rack stability, wall mounting).
RJ45 Ports	5-48 ports are configured to connect terminal devices and achieve LAN access.
SFP Ports	1G/10G SFP optical modules provide uplink capability or long-distance connections across buildings/machine rooms.
PoE Ports	Compliant with IEEE 802.3af/at PoE standards, it can automatically detect and provide the required power for your PoE devices, reducing wiring complexity and deployment costs.
Switching Capacity	The total bandwidth capacity of the switch determines the overall data processing capacity of the device and affects concurrent performance.
Forwarding Rate	The number of packets that can be forwarded per unit of time determines small packet forwarding capacity, directly affecting network efficiency.
Power Supply	Built-in/external power supply provides a stable power supply and improves equipment reliability.
Fan Number	Fanless silent design or an intelligent temperature-controlled fan improves equipment heat dissipation and noise level to adapt to different deployment environments.
Max. Power Consumption	Guides power infrastructure design and predicts operational costs.
PoE Budget	Determines total power available for connected devices.
Mounting Options	Offers deployment versatility (racks, walls, desks) for diverse environments.

Software Capabilities

Protocol Support Comparison

Software Feature	S3100 Series	S2805S Series	S2500L Series	S1900 Series
Auto-MDI/MDIX	√	√	√	√
Energy-Efficient Ethernet (EEE)	√	√	√	√
Flow Control	√	√	√	√
PoE	√	-	√	√
MAC address filtering	√	√	-	-

VLAN	√	√	-	-
QoS	√	√	-	-
ACL	√	√	-	-
Link Aggregation （LACP）	√	√	-	-
Static routing	√	√	-	-
IGMP Snooping	√	√	-	-
OSPF	√	√	-	-
DHCP Snooping	√	√	-	-
RADIUS/TACACS+	√	√	-	-
LLDP	√	√	-	-
Port Security	√	√	-	-
Port Mirroring	√	√	-	-
Loopback Detection	√	√	-	-
STP/RSTP/MSTP	√	√	-	-
Voice VLAN	√	-	-	-
sFlow	√	-	-	-

Features and Benefits

Software Feature	Benefits
Auto-MDI/MDIX	Automatic identification of straight-through and crossover cables simplifies cabling by eliminating the need to distinguish cable types.
Energy-Efficient Ethernet （EEE）	Automatically reduces power consumption during idle periods, saving energy and lowering operational costs.
Flow Control	Enhances network stability and prevents packet loss.
PoE	Provides power to terminals via RJ45 ports, simplifying deployment of PoE devices such as access points (APs), IP phones, and cameras.
MAC address filtering	Allows configuration of allowed or blocked MAC address lists to restrict device access and improve network security at the access layer.
VLAN	Supports tag-based VLAN isolation with up to 4096 VLANs, enhancing security and management flexibility.
QoS	Rate limiting and queue scheduling prioritize mission-critical traffic (VoIP, video, etc).
ACL	Granular access control via IP/MAC/port-based rules improves network security enforcement.
Link Aggregation （LACP）	Port aggregation enables multiple physical ports to be combined into a single logical link, supporting load balancing and redundancy to improve bandwidth and enhance link reliability.
Static routing	Flexible routing control, suitable for small and medium-sized networks.

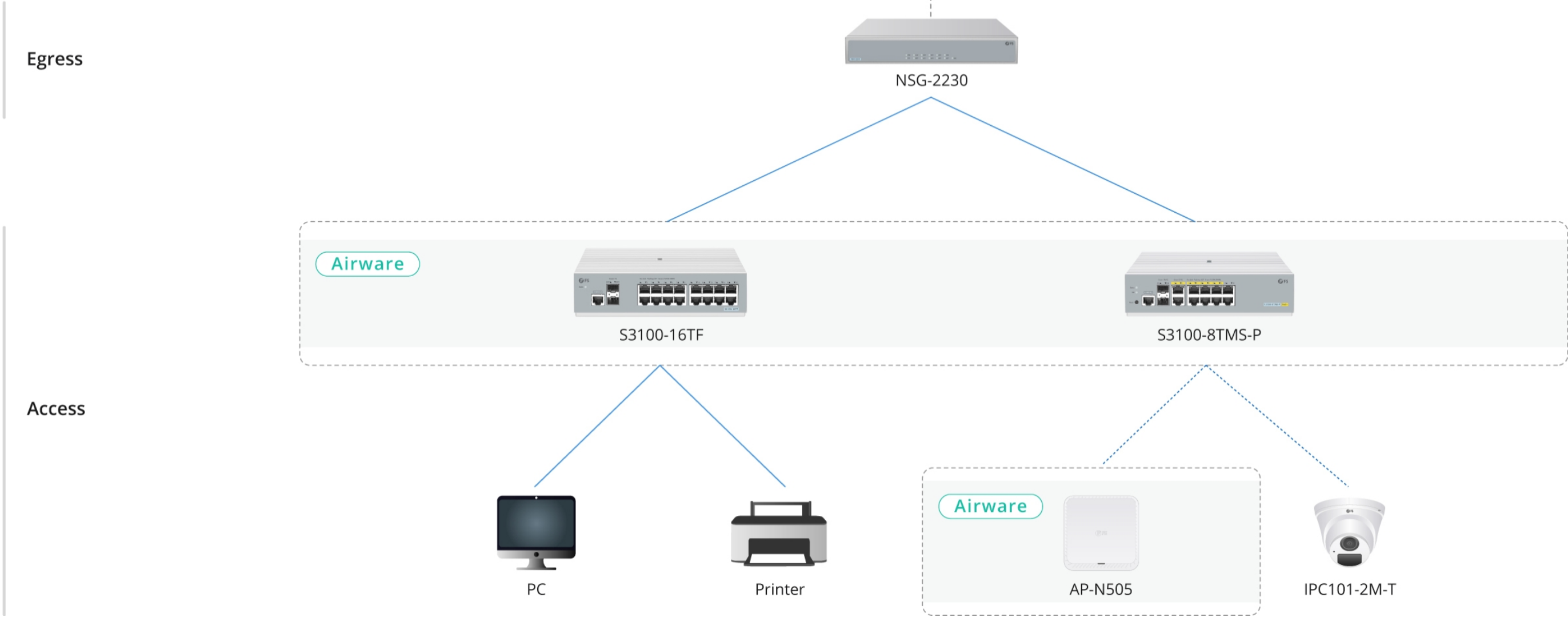
IGMP Snooping	IGMP snooping confines multicast traffic to subscribed ports, minimizing flooding and optimizing bandwidth for multicast-intensive services (e.g., video surveillance, IPTV).
OSPF	Dynamic routing protocols allow routers to automatically learn and update routes, improving network scalability and adaptability.
DHCP Snooping	DHCP security features help prevent attacks by blocking unauthorized DHCP servers and maintaining IP-to-MAC address bindings, thereby improving the security of network access.
RADIUS/TACACS+	RADIUS/TACACS+ strengthens login security and centralizes user management for network devices, ideal for SMEs to simplify access control while keeping networks secure.
LLDP	Enables easy discovery and management of network topology, improving network visibility and operational efficiency.
Port Security	By restricting the number of MAC addresses that can be learned per port and enabling MAC address binding, this feature helps prevent unauthorized devices from connecting to the network.
Port Mirroring	Port mirroring allows traffic from a designated port to be replicated to another port for the purposes of packet analysis and network troubleshooting.
Loopback Detection	Implements physical loop detection and automatic port shutdown to provide a basic loop protection mechanism, ideal for deployment at the access layer.
STP/RSTP/MSTP	STP, RSTP, and MSTP are used to prevent Layer 2 loops. RSTP converges faster than STP, while MSTP supports multiple instances, enabling flexible traffic management. They are well-suited for the complex networks of SMBs.
Voice VLAN	A dedicated VLAN with elevated priority is assigned to voice devices to enhance IP telephony quality by minimizing latency and jitter.
sFlow	sFlow is a lightweight, sampling-based network monitoring protocol designed mainly for traffic visualization, anomaly detection, and capacity planning.

Solution Guides

Simple and Efficient SOHO Office Network Solution

A stable, quiet, cost-effective, and easy-to-maintain network solution is an ideal choice for meeting the rising connectivity needs of small and home offices. Featuring high-reliability fanless switches, energy-efficient PoE deployment, and high-speed fiber uplinks, the solution ensures 24/7 operation, seamless roaming for PoE-powered devices like wireless APs, and future-ready expansion for IoT. Built on a simplified two-layer architecture, the network is managed through the centralized Airware Cloud platform for streamlined deployment, real-time monitoring, and reduced maintenance costs. An end-to-end portfolio that includes switches, firewalls, wireless, surveillance and cabling can help startups and small offices stay connected and productive at a lower cost.

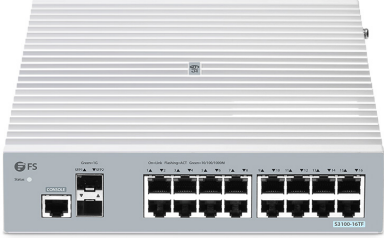
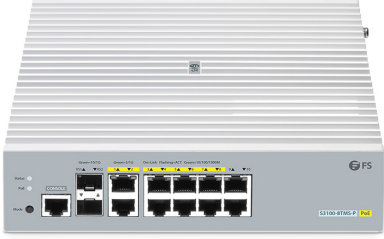
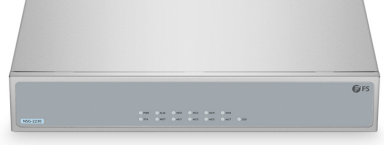
----- Gigabit PoE
----- Gigabit Ethernet



• Highlights

- Deploy S3100 series switches with Airware Cloud for automated access layer management and seamless firewall integration at the egress layer.
- Wireless access is provided by AP-N505, supporting HD video, VoIP, PCs, printers, and other devices.
- Internet access is managed through the NSG-2230 for centralized egress control.

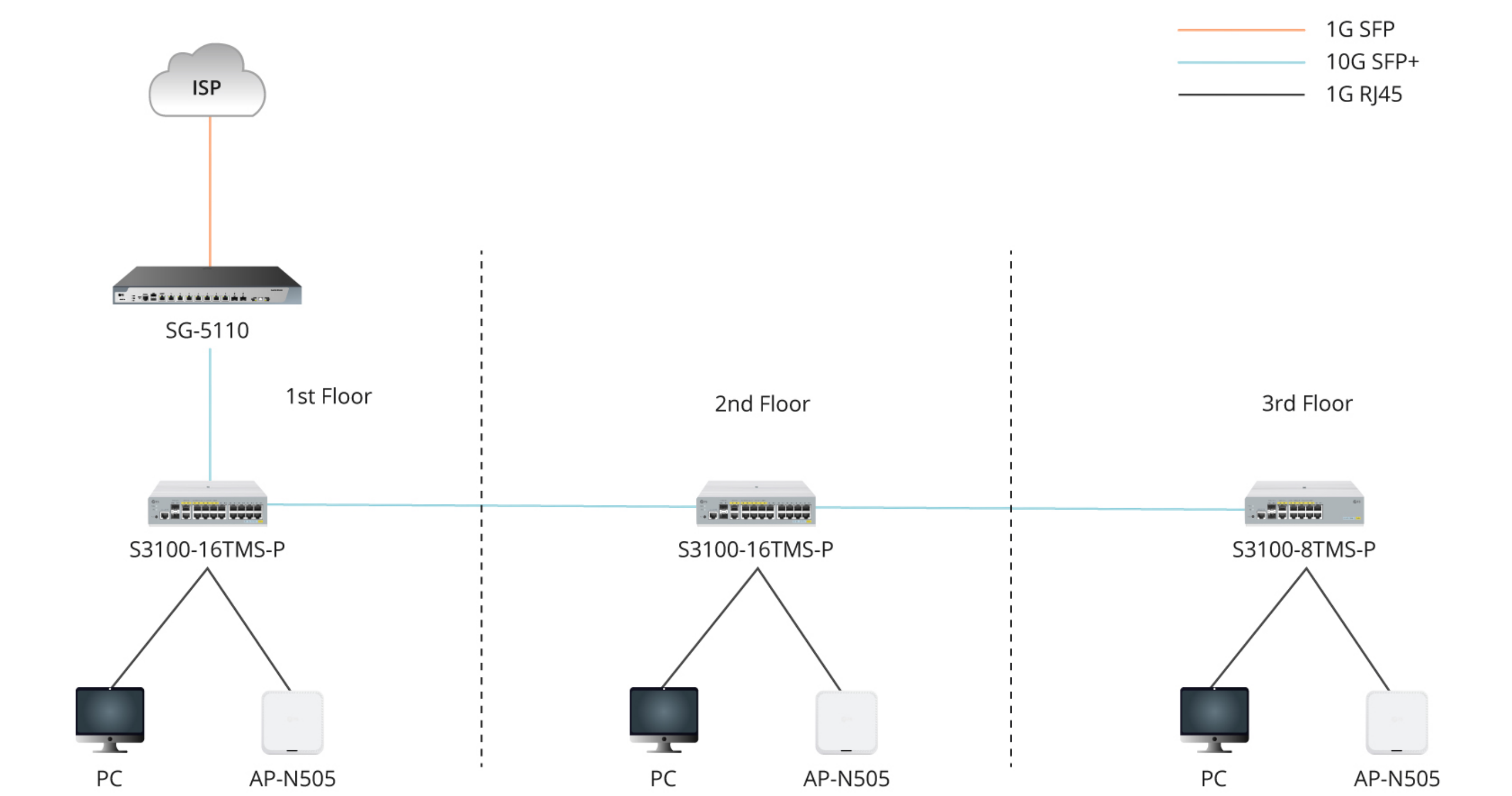
• Key Products

Product image	Product model	Key description
	S3100-16TF	16-Port Gigabit Ethernet L2+ Switch, 16 x 1Gb RJ45, with 2 x 1Gb SFP Uplinks, Broadcom Chip, Fanless
	S3100-8TMS-P	8-Port Gigabit Ethernet L2+ PoE+ Switch, 6 x PoE+ Ports, 2 x 5Gb PoE+ Ports@125W, 2 x 1Gb RJ45, with 2 x 10Gb SFP+ Uplinks, Broadcom Chip, Fanless
	NSG-2230	Next-Generation Firewall, 8 x 1Gb RJ45, with 1 Year License Default, License Renewal and Subscription Service Options Available

	AP-N505	Cloud Managed Wi-Fi 6 802.11ax 3000 Mbps Indoor Access Point, Seamless Roaming & 2 × 2 MU-MIMO Dual Radios, Manageable via Airware, Controller or Standalone (Without PoE Injector)
	IPC101-2M-T	Full HD 2MP Turret Network Camera with Build-in Mic, 98ft Night Vision, IP67 Weatherproof PoE Network Camera with Fixed 2.8mm Lens

Community Clinic Upgrades Network with FS Campus Solution

To meet the growing connectivity demands in healthcare clinics, a robust and silent network solution is essential to ensure stable, 24/7 operation and seamless support for PoE-powered devices like wireless APs. By employing highly reliable switching equipment, energy-efficient PoE deployments, and high-speed fiber optic uplinks, the solution minimizes noise, ensures fast roaming, and enables future expansion of IoT medical devices while remaining simple to install, cost-effective, and ready for centralized cloud management.

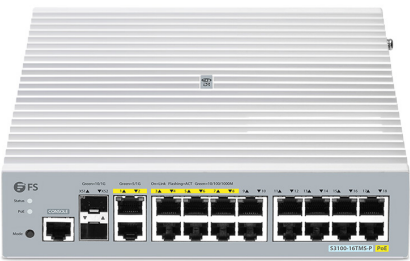
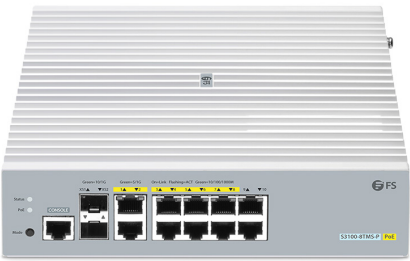


• Highlights

- Interconnected between floors via 10G SFP+ fiber optics to avoid electromagnetic interference and ensure stable medical image transmission.
- PoE+ port-powered FS wireless APs enable seamless roaming in treatment areas. (unified SSID, cross-floor switching latency <100ms)
- Switch equipment MTBF >200k hours. (5-year failure rate <1% in medical settings)

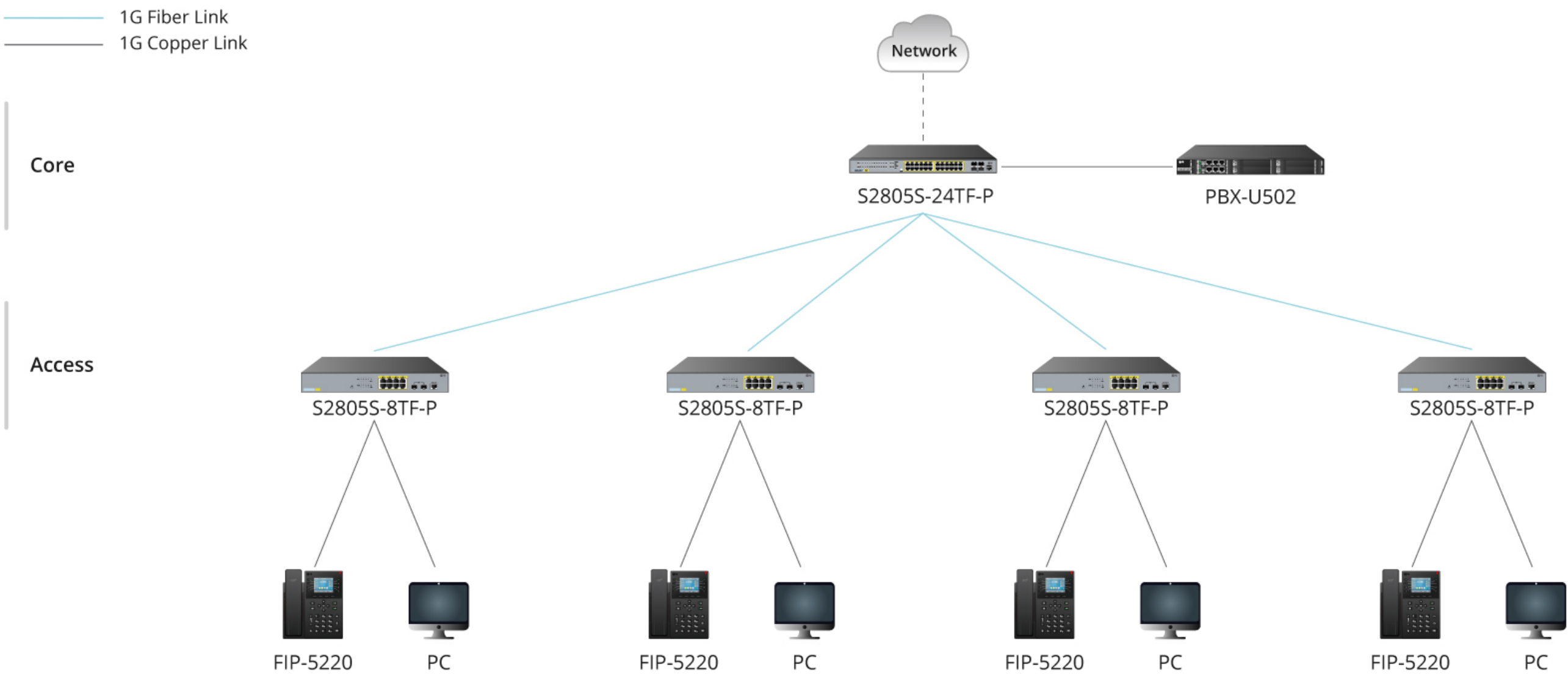
• Key Products

Product image	Product model	Key description
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	S3100-16TMS-P	16-Port Gigabit Ethernet L2+ PoE+ Switch, 6 x PoE+ Ports, 2 x 5Gb PoE+ Ports@125W, 10 x 1Gb RJ45, with 2 x 10Gb SFP+ Uplinks, Broadcom Chip, Fanless
	S3100-8TMS-P	8-Port Gigabit Ethernet L2+ PoE+ Switch, 6 x PoE+ Ports, 2 x 5Gb PoE+ Ports@125W, 2 x 1Gb RJ45, with 2 x 10Gb SFP+ Uplinks, Broadcom Chip, Fanless
	AP-N505	Cloud Managed Wi-Fi 6 802.11ax 3000 Mbps Indoor Access Point, Seamless Roaming & 2 x 2 MU-MIMO Dual Radios, Manageable via Airware, Controller or Standalone (Without PoE Injector)
	SFP-10GSR-85	10GBASE-SR SFP+ 850nm 300m DOM Duplex LC/UPC MMF Optical Transceiver Module for FS Switches

NEC IP Phone Provider Enhances Network with FS Campus Solution

To ensure reliable and scalable fiber connections between all branch office sites, the solution integrates high-performance switches and access devices that offer powerful interoperability and a compact design. With reserved rack space and a modular architecture, the solution supports future business growth, while simplified operations and centralized management reduce maintenance workloads. By balancing performance and cost while ensuring full compatibility with existing systems, the solution delivers a quiet, energy-efficient network ideal for multi-site deployments.



• Highlights

- Use the S2805S-24TF-P at Site 0 to connect to the ISP, and distribute the network to Sites 1–4 via the S2805S-8TF-P for stable and efficient connectivity.
- The AC-1004 gateway meets current needs and allows easy upgrades or site additions in the future.
- FS FHD chassis and splice trays ensure compatibility across devices, improving system reliability and avoiding compatibility issues.

• Key Products

Product image	Product model	Key description
	S2805S-24TF-P	24-Port Gigabit Ethernet L2 Smart Managed PoE+ Switch, 24 x PoE+ Ports @370W, with 4 x 1Gb SFP Uplinks
	S2805S-8TF-P	8-Port Gigabit Ethernet L2 Smart Managed PoE+ Switch, 8 x PoE+ Ports @140W, with 2 x 1Gb SFP Uplinks
	AC-1004	802.11ax Wireless LAN Controller with 5 Gigabit Ethernet Ports, Seamless Wi-Fi Roaming, Manage up to 64 Wi-Fi 6 APs
	FIP-5220	Advanced VoIP Phone with 4.3-Inch Color LCD Screen, 20 SIP Accounts, USB 2.0, Dual-Port Gigabit Ethernet, PoE

Additional resources

- [FS S3100 Series Switches Data Sheet](#)
- [FS S2805S Series Switches Data Sheet](#)
- [FS S2500L Series Switches Data Sheet](#)
- [FS S1900 Series Switches Data Sheet](#)



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