



For
Small
Business



Cisco IP Phones and Small Business Switches: Working Better Together

More and more small businesses are turning to voice over IP (VoIP) as the foundation of their business telephone communications. Whether maintaining on-site IP private branch exchange (PBX) systems or using hosted VoIP solutions that deliver voice services from the cloud, small companies are benefiting from the flexibility, rich feature set, and cost savings of IP telephony.

As small businesses move to support both voice and data applications over a single network, they need a network infrastructure that can intelligently prioritize delay-sensitive voice traffic. They also need a solution that delivers proven reliability and scalability, and business-class service and support.

Unfortunately, many small business VoIP systems are patchwork solutions, built using IP phones and network platforms from different vendors. Resolving a problem with these systems may mean dealing with multiple vendors. They may also limit your ability to add more users or advanced voice and video capabilities in the future. Fortunately, there is a better option: Cisco® Small Business network switches and Cisco SPA 500 Series IP Phones.

Cisco IP Phones and Small Business Switches: A Winning Combination

Cisco provides a comprehensive line of affordable IP phones and network switches to meet any small business customer's needs and budget. These products work together to provide a comprehensive set of advanced security, management, and quality-of-service (QoS) capabilities for IP telephony deployments. Designed from the ground up to function as an integrated solution, they provide a powerful business-class VoIP platform for any small business.

Cisco SPA 500 Series IP Phones

The Cisco SPA 500 Series is a portfolio of affordably priced, reliable, easy-to-use phones for small businesses. They are supported by all Cisco Small Business network platforms and phone systems, as well as by any Session Initiation Protocol (SIP) standard-based IP PBX systems and hosted telephony services. These small business IP phones provide a full range of features to serve any small office, with proven Cisco reliability and business-class support (Table 1).

Cisco Small Business Switches

Cisco offers a broad portfolio of small business network switches that span the range from unmanaged to stackable managed Ethernet platforms. These switches provide wire-speed Fast Ethernet and Gigabit Ethernet connectivity with Power over Ethernet (PoE) in multiple configurations to meet any small business requirement. They deliver proven reliability and scalability in a platform that was designed specifically for business-class services—not consumer environments (Tables 2–4).

Features and Benefits

Cisco SPA 500 Series IP Phones and Cisco Small Business switches provide all of the features you need to enable a small business VoIP solution, including PoE, QoS intelligence, and advanced security services. As part of an integrated Cisco solution, they provide the benefit of products designed to work together as well as the following:

- **Proven Cisco quality:** Both Cisco SPA 500 Series IP Phones and Cisco Small Business switches have undergone extensive testing to help ensure interoperability with Cisco Small Business solutions and deliver proven performance and reliability.
- **Easy setup:** Cisco IP phones and switches can be deployed in minutes. All switches feature intuitive web-based management tools that can guide you through every step of the setup.
- **Comprehensive service and support:** Cisco SPA 500 Series IP Phones and Cisco Small Business switches are supported by the Cisco Small Business Support Center. If you have a problem at any point in your network and voice system, you need call only one number to find the solution.
- **Interoperability:** Cisco SPA 500 Series IP Phones and Cisco Small Business switches can support virtually any back-end telephony application service, whether from Cisco or a third party, hosted or as part of an onsite IP PBX.

Cisco IP Phone and Switch Portfolio: The Right Solution for Any Small Business




Table 1 outlines the Cisco 500 Series IP Phones models and features. Tables 2, 3 and 4 outline the differing switch portfolio models and features. All Cisco switches offer the features and interoperability required to deliver a voice solution.

Table 1. Cisco 500 Series IP Phones

Cisco SPA 500 Series IP Phones		Display	Line Keys	Audio	Power over Ethernet	Bluetooth	Wireless (Wi-Fi)
Cisco SPA 501G IP Phone		Paper Label	8 Programmable Keys	Cisco HD Voice, Full Duplex Speakerphone, Headset Port	Yes	Not supported	Not supported
Cisco SPA 502G IP Phone		Monochrome backlit display	None	Cisco HD Voice, Full Duplex Speakerphone, Headset Port	Yes	Not supported	Not supported
Cisco SPA 504G IP Phone		Monochrome backlit display	4 Programmable Keys	Cisco HD Voice, Full Duplex Speakerphone, Headset Port	Yes	Not supported	Not supported
Cisco SPA 508G IP Phone		Monochrome backlit display	8 Programmable Keys	Cisco HD Voice, Full Duplex Speakerphone, Headset Port	Yes	Not supported	Not supported
Cisco SPA 509G IP Phone		Monochrome backlit display	12 Programmable Keys	Cisco HD Voice, Full Duplex Speakerphone, Headset Port	Yes	Not supported	Not supported
Cisco SPA 525G IP Phone		Color backlit display	5 Programmable Keys	Cisco HD Voice, Full Duplex Speakerphone, Headset Port	Yes	Yes	Yes

Table 2. Cisco ESW 500 Series Switches













- Larger deployments
- Managed switches that ship with pre-set telephony defaults
- Easy integration with Cisco Smart Business Communication System

Product SKU		Copper FE Ports	Copper GE Ports	Combo SFP GE Ports*	Dedicated SFP Ports	PoE	Switch Capacity	VLAN	QoS Priority Queues
ESW-520-24P-K9		24	4	2		180W	12.8 Gbps	256	4
ESW-520-48P-K9		48	2		2	370W	17.6 Gbps	256	4
ESW-540-24P-K9		24		4		280W	48 Gbps	256	4

* Combo small form-factor pluggable (SFP) slots include one 10/100/1000BASET Ethernet port and 1 SFP-based Gigabit Ethernet slot for fiber, 1 port active at a time.

Table 3. Cisco Small Business Managed Switches



- Larger deployments
- High-density voice, real-time applications

Product SKU		Copper FE Ports	Copper GE Ports	Combo SFP GE Ports*	Dedicated SFP Ports	PoE	Switch Capacity	VLAN	QoS Priority Queues
SRW208P		8	2	2		60W	5.6 Gbps	256	4
SRW208MP		8	2	2		123W	5.6 Gbps	256	4
SRW224G4P		24	4	2		180W	12.8 Gbps	256	4
SRW248G4P		48	4	2		360W	17.6 Gbps	256	4
SRW2008P			8	2		60W	16 Gbps	256	4
SRW2008MP			8	2		123W	16 Gbps	256	4
SRW2024P			24	2		180W	48 Gbps	256	4
SFE1000P		8	2	2		60W	5.6 Gbps	256	4
SFE2000P		24	4	2		180W	12.8 Gbps	256	4
SFE2010P		48	2		2	360W	17.6 Gbps	256	4
SGE2000P			24	4		185W	48 Gbps	256	4
SGE2010P			48	4		360W	96 Gbps	256	4

* Combo small form-factor pluggable (SFP) slots include one 10/100/1000BASE-T Ethernet port and 1 SFP-based Gigabit Ethernet slot for fiber, 1 port active at a time.

Table 4. Cisco Small Business Smart Switches

- Smaller deployments
- Low- to medium-density voice, real-time applications

Product SKU		Copper FE Ports	Copper GE Ports	Combo SFP GE Ports*	Dedicated SFP Ports	PoE	Switch Capacity	VLAN	QoS Priority Queues
SLM224P		24	2	2		100W	8.8 Gbps	128	4
SLM248P		48	2	2		180W	13.6 Gbps	128	4

* Combo small form-factor pluggable (SFP) slots include one 10/100/1000BASE-T Ethernet port and 1 SFP-based Gigabit Ethernet slot for fiber, 1 port active at a time.

Why Cisco

When you build your IP telephony system with Cisco solutions, you are working with a trusted partner and global leader that stands behind its products and delivers proven quality and reliability, at an affordable price. Every Cisco IP phone and Cisco Small Business switch has undergone rigorous testing and met stringent quality standards. Ultimately, Cisco can provide a high-performance, business-class network and voice solution to meet virtually any small business need.

For more information on Cisco Small Business phones, visit:
www.cisco.com/go/spa500phones

For more information on Cisco Small Business switches, visit:
www.cisco.com/go/smallbizswitches