

Cisco SPA508G 8-Line IP Phone



Highlights

- Full-featured 8-line business-class IP phone supporting Power over Ethernet (PoE)
- Monochrome backlit display for ease of use, aesthetics, and on-screen applications
- . Connects directly to an Internet telephone service provider or to an IP private branch exchange (PBX)
- · Wideband audio for unsurpassed voice clarity and enhanced speaker quality
- Easy installation and highly secure remote provisioning, as well as menu-based and web-based configuration
- Supports up to two Cisco® SP500S Expansion Module, adding up to 64 additional buttons*
- Supports both Session Initiation Protocol (SIP) and Smart Phone Control Protocol (SPCP) with the Cisco Unified Communications 500 Series for Small Business

Comprehensive Interoperability and SIP-Based Feature Set

Part of the Cisco Small Business Pro Series, the SIP-based Cisco SPA508G 8-Line IP Phone (Figure 1) has been tested to ensure comprehensive interoperability with equipment from voice over IP (VoIP) infrastructure leaders, enabling service providers to quickly roll out competitive, feature-rich services to their customers.

With hundreds of features and configurable service parameters, the Cisco SPA508G addresses the requirements of traditional business users while building on the advantages of IP telephony. Features such as easy station moves and shared line appearances (across local and geographically dispersed locations) are just some of the many advantages of the SPA508G.

The Cisco SPA508G 8-Line IP Phone also supports productivity-enhancing features such as VoiceView Express, and Cisco XML applications when used with the Cisco Unified Communications 500 Series in SPCP mode.

Carrier-Grade Security, Provisioning, and Management

The Cisco SPA508G uses standard encryption protocols to perform highly secure remote provisioning and unobtrusive in-service software upgrades. Remote provisioning tools include detailed performance measurement and troubleshooting features, enabling network providers to deliver high-quality support to their subscribers. Remote provisioning also saves service providers the time and expense of managing, preloading, and reconfiguring customer premises equipment.

Figure 1. Cisco SPA508G 8-Line IP Phone



Telephony Features

- · Eight voice lines
- Eight independent SIP Registrations*
- · Line status: active line indication, with name and number
- · Menu-driven user interface
- Shared line appearance**
- Speakerphone
- Call hold
- Music on hold**
- · Call waiting
- Caller ID name and number
- · Outbound caller ID blocking
- · Call transfer: attended and blind
- Three-way call conferencing with local mixing
- · Multiparty conferencing via external conference bridge
- · Automatic redial of last calling and last called numbers
- On-hook dialing
- Call pickup: selective and group**
- Call park and unpark**
- Call swap
- Call back on busy
- · Call blocking: anonymous and selective
- · Call forwarding: unconditional, no answer, on busy
- Hot line and warm line automatic calling
- Call logs (60 entries each): made, answered, and missed calls
- Redial from call logs
- Personal directory with auto-dial (100 entries)

- · Do not disturb
- · Digits dialed with number auto-completion
- Anonymous caller blocking
- Uniform Resource Identifier (URI) (IP) dialing support (vanity numbers)
- On-hook default audio configuration (speakerphone and headset)
- · Multiple ring tones with selectable ring tone per line
- · Called number with directory name matching
- · Ability to call number using name: directory matching or via caller ID
- · Subsequent incoming calls show calling name and number
- Date and time with support for intelligent daylight savings
- · Call start time stored in call logs
- · Call timer
- · Name and identity (text) displayed at startup
- · Distinctive ringing based on calling and called number
- 10 user-downloadable ring tones
- · Speed dialing, eight entries
- · Configurable dial/numbering plan support
- Intercom**
- Group paging**
- Network Address Translation (NAT) Traversal, including Simple Traversal of UDP Through NATs (STUN) support
- DNS SRV and multiple A records for proxy lookup and proxy redundancy
- · Syslog, debug, report generation, and event logging
- · Highly secure call encrypted voice communications support
- Built-in web server for administration and configuration with multiple security levels
- Automated remote provisioning, multiple methods; up to 256-bit encryption (HTTP, HTTPS, Trivial File Transfer Protocol [TFTP])
- Option to require administrator password to reset unit to factory defaults

Hardware Features

- Pixel-based display: 128 x 64 monochrome LCD graphical display with backlight
- · Dedicated illuminated buttons for:
 - · Audio mute on/off
 - Headset on/off
 - Speakerphone on/off
- 4-way rocking directional knob for menu navigation
- Voicemail message waiting indicator (VMWI) light
- · Voicemail message retrieval button
- · Dedicated hold button
- · Settings button for access to feature, setup, and configuration menus

- · Volume control rocking up/down knob controls handset, headset, speaker, ringer
- Standard 12-button dialing pad
- High-quality handset and cradle
- · Built-in high-quality microphone and speaker
- Headset jack: 2.5 mm
- · LED test function
- Two Ethernet ports with integrated Ethernet switch: 10/100BASE-T RJ-45
- 802.3af-compliant PoE
- Optional 5 VDC universal (100-240V) switching; power supply is ordered separately (Cisco PA100)

Regulatory Compliance

• FCC (Part 15, Class B), CE Mark, A-Tick, C-Tick, Telepermit, UL, CB

Security Features

- · Password-protected system, preset to factory default
- · Password-protected access to administrator and user-level features
- · HTTPS with factory-installed client certificate
- HTTP digest: encrypted authentication via MD5 (RFC 1321)
- Up to 256-bit Advanced Encryption Standard (AES) encryption
- SIP over Transport Layer Security (TLS)
- Secure Real-Time Transport Protocol (SRTP)

Documentation

- · Quick-Start Installation and Configuration Guide
- User Guide
- · Administration Guide
- Provisioning Guide (for service providers only)

Package Contents

- · Cisco SPA508G 8-Line IP Phone, handset, and stand
- Handset cord
- RJ-45 Ethernet cable
- · Quick-Start Guide
- CD

Specifications

Table 1 gives specifications for the Cisco SPA508G 8-Line IP Phone.

 Table 1.
 Specifications for the Cisco SPA508G 8-Line IP Phone

Note: Many features are programmable within a defined range or list of options. Please see the SPA Administration Guide for details. The target configuration profile is uploaded to the SPA508G at the time of provisioning.

Specifications	
Data networking	 MAC address (IEEE 802.3) IPv4 (RFC 791) Address Resolution Protocol (ARP) DNS: A record (RFC 1706), SRV record (RFC 2782) Dynamic Host Configuration Protocol (DHCP) client (RFC 2131) Internet Control Message Protocol (ICMP) (RFC 792) TCP (RFC 793) User Datagram Protocol (UDP) (RFC 768) Real-Time Transport Protocol (RTP) (RFC 1889, 1890) Real Time Control Protocol (RTCP) (RFC 1889) Differentiated Services (DiffServ) (RFC 2475) Type of service (ToS) (RFC 791, 1349) VLAN tagging 802.1p/Q: Layer 2 quality of service (QoS) Simple Network Time Protocol (SNTP) (RFC 2030) Cisco Discovery Protocol (CDP) Link Layer Discovery Protocol (LLDP)
Voice gateway	 Link Layer Discovery Protocol (LLDP) SIP version 2 (RFC 3261, 3262, 3263, 3264) SPCP with the Cisco Unified Communications 500 Series SIP proxy redundancy: dynamic via DNS SRV, A records Reregistration with primary SIP proxy server SIP support in NAT networks (including STUN) SIPFrag (RFC 3420) Secure (encrypted) calling via SRTP Codec name assignment Voice algorithms: G.711 (A-law and µ-law) G.726 (16/24/32/40 kbps) G.729 A G.722 Dynamic payload support Adjustable audio frames per packet Dual-tone multifrequency (DTMF), in-band and out-of-band (RFC 2833) (SIP INFO) Flexible dial plan support with interdigit timers IP address/URI dialing support Call progress tone generation Jitter buffer: adaptive Frame loss concealment Comfort Noise Generation (CNG) Voice activity detection (VAD) with silence suppression Attenuation/gain adjustments VMWIVoicemail waiting indicator, via NOTIFY, SUBSCRIBE Caller ID support (name and number) Third-party call control (RFC 3725)
Provisioning, administration and maintenance	

Specifications		
Power supply	 Power supply is optional and is purchased separately Models: Cisco PA100-NA, PA100-EU, PA100-UK, PA100-AU DC output voltage: +5 VDC at 2.0A maximum Switching power adapter: 100-240V 50-60 Hz AC input 	
Physical interfaces	Two 10/100BASE-T RJ-45 Ethernet ports (IEEE 802.3) Handset: RJ-9 connector Built-in speakerphone and microphone Headset 2.5mm jack	
Indicator lights/LEDs	Speakerphone on/off button with LED Headset on/off button with LED Mute button with LED Message waiting LED	
Body dimensions (W x H x D)	8.42 x 8.35. x 1.73in. (214 x 212 x 44 mm)	
Unit weight	2.00 lb (0.9 kg)	
Operating temperature	32° ~ 104°F (0° ~ 40°C)	
Storage temperature	-4° ~ 158°F (-20° ~ 70°C)	
Operating humidity	5% to 95% noncondensing	
Storage humidity	5% to 95% noncondensing	

Table 2 compares the SPA508G with other Cisco SPA 500 Series IP Phones.

 Table 2.
 Cisco SPA500 Series IP Phone Comparison

Model	Voice Lines	Ethernet Ports	High-Resolution Graphical Display	PoE Support
SPA501G	8	2	No	Yes
SPA502G	1	2	Yes	Yes
SPA504G	4	2	Yes	Yes
SPA508G	8	2	Yes	Yes
SPA509G	12	2	Yes	Yes
SPA525G / SPA525G2	5	2	Color	Yes

Tables 3 and 4 give part numbers for the Cisco SPA508G and optional support and accessories.

 Table 3.
 Ordering Information

Part Number	Description	
SPA508G	Cisco SPA508G 8-Line IP Phone	
CON-SBS-SVC1	3-year Cisco Small Business Support Service	

Table 4.Optional Accessories

Part Number	Description	
MB100	Wall-mount brackets for SPA500, CP500, and SPA 900 Series	
PA100-NA	Power supply for SPA500, CP500, and SPA 900 Series-5V/2A (North America style plug)	
PA100-UK	Power supply for SPA500, CP500, and SPA 900 Series-5V/2A (UK style plug)	
PA100-EU	Power supply for SPA500, CP500, and SPA 900 Series-5V/2A (EU style plug)	
PA100-AU	Power supply for SPA500, CP500, and SPA 900 Series-5V/2A (AU style plug). Power supply for SPA500 and SPA900-5V/2A (NA)	
WBP54G	802.11b/g wireless bridge	

Service and Support

The Cisco Small Business Support Service provides three years affordable peace of mind coverage, to help protect your investment and derive maximum value from your Cisco Small Business solution. The subscription-based service offers software updates, telephone and online chat access to the Cisco Small Business Support Center, and next business day hardware replacement.

Cisco Small Business products are supported by professionals in Cisco Small Business Support Center locations worldwide who are specifically trained to understand your needs. The Cisco Small Business Support Community, an online forum, enables you to collaborate with your peers and reach Cisco technical experts for support information.

Warranty

This Cisco Small Business product is covered by a Cisco 1-year limited hardware warranty with return to factory replacement and a 90-day limited software warranty. In addition, Cisco offers software updates for bug fixes for the warranty term, and telephone and online chat technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to: http://www.cisco.com/cisco/web/download/index.html.

Product warranty terms and other information applicable to Cisco products are available at http://www.cisco.com/go/warranty.

For More Information

To learn more about the Cisco SPA 500 Series IP Phones please visit: http://www.cisco.com/go/500phones.

For more information on Cisco Small Business products and solutions, visit: http://www.cisco.com/smallbusiness.



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^{*}Feature supported only in SIP mode.

^{**}Feature requires support by call server.