



Cisco SPA901 1-Line IP Phone Cisco Small Business IP Phone

Durable, Affordable, Feature-Rich IP Telephone for the Home Office and Business

- Small, affordable, single line business class IP Phone
- Connect directly to an Internet telephone service provider or connect to an IP PBX
- Wall mount or table top phone
- Easy installation with secure remote provisioning.

Comprehensive Interoperability and SIP-Based Feature Set

Based on the Session Initiation Protocol (SIP), the Cisco® SPA901 1-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 SPA901 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 SPA901.

Carrier-Grade Security, Provisioning, and Management

The Cisco SPA901 uses standard encryption protocols to perform secure remote provisioning and unobtrusive in-service software upgrades.

Secure 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 SPA901 1-Line IP Phone

Telephony Features

- One line registration
- Two call appearances accessed via flash key or hook flash
- Shared line appearance**
- Line status indicator
- Call hold
- Music on hold**
- Call waiting
- Outbound caller ID blocking
- Call transfer: attended and blind
- Three-way conferencing with local mixing
- Multi party call conferencing via external conference bridge**
- Call pickup: selective and group**
- Call park and unpark**
- Call back on busy
- Call blocking: anonymous and selective
- Call forwarding: unconditional, no answer, on busy
- Call return: redial last caller
- Hot line and warm line automatic calling
- Call logs (60 entries each): made, answered, and missed calls, accessed via HTTP server
- Redial last called number
- Do not disturb (callers hear line busy tone)
- Block anonymous incoming calls
- Uniform Resource Identifier (URI) (IP) dialing support (vanity numbers)
- Built-in web server for administration and configuration, with user and administrator access levels

- Built-in interactive voice response system to check status and change configuration
- Date and time with intelligent daylight savings support
- Call start time stored in call logs
- Distinctive ringing
- 10 user-downloadable ring tones
- Speed dial (eight entries)
- Group paging (outbound only)**
- Intercom (outbound only)**
- Set preferred codec per call, all calls
- Configurable dial/numbering plan support
- Ringer and handset volume controls
- Handset input gain adjustment
- DNS SRV and multiple A records for proxy lookup and proxy redundancy
- Syslog, debug, report generation, and event logging
- Secure call encrypted voice communication support
- Network Address Translation (NAT) Traversal
- Automated provisioning, multiple methods; up to 256-bit encryption: (HTTP, HTTPS, Trivial File Transfer Protocol [TFTP])
- Support for Linksys voice system automatic configuration
- Option to require administrator password to reset unit to factory defaults

** Feature requires support by call server.

Hardware Features

- Voicemail message waiting indicator light
- Redial button
- Dedicated flash button
- Volume control button cycles through volume levels; controls ringer and handset volume
- Standard 12-button dialing pad
- High-quality handset and cradle
- Ethernet LAN: 10BASE-T RJ-45
- 5 VDC universal (100–240V) switching power adapter

Specifications

Table 1 gives specifications for the Cisco SPA901 1-Line IP Phone. Table 2 compares the SPA901 with other Cisco Small Business IP Phones.

Table 1. Specifications for the Cisco SPA901 1-Line IP Phone

<p>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 SPA901 at the time of provisioning.</p>	
Data networking	<ul style="list-style-type: none"> • MAC address (IEEE 802.3) • IPv4 (RFC 791) • ARP: Address Resolution Protocol • DNS A record (RFC 1706), SRV record (RFC 2782) • DHCP client: Dynamic Host Configuration Protocol (RFC 2131) • ICMP: Internet Control Message Protocol (RFC 792) • TCP (RFC 793) • UDP: User Datagram Protocol (RFC 768) • RTP: Real Time Protocol (RFC 1889, 1890) • RTCP: Real Time Control Protocol (RFC 1889) • DiffServ: Differentiated Services (RFC 2475) • ToS: type of service (RFC 791, 1349) • VLAN tagging 802.1p/Q; Layer 2 quality of service (QoS) • SNTP: Simple Network Time Protocol (RFC 2030)
Voice gateway	<ul style="list-style-type: none"> • SIP v2: (RFC 3261, 3262, 3263, 3264) • SIP proxy redundancy: dynamic via DNS SRV, A records • Reregistration with primary SIP proxy server • SIP support in NAT networks (including serial tunnel [STUN]) • SIPFrag (RFC 3420) • Secure (encrypted) calling via prestandard implementation of Secure RTP • Codec name assignment • Voice algorithms: <ul style="list-style-type: none"> ◦ G.711 (A-law and mu-law) ◦ G.726 (16/24/32/40 kbps) ◦ G.729 A ◦ G.723.1 (6.3 kbps, 5.3 kbps) • Dynamic payload support • Adjustable audio frames per packet • 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 • VAD: voice activity detection with silence suppression • Attenuation/gain adjustments • MWI: message waiting indicator tones • VMWI: visual message waiting indicator via NOTIFY, SUBSCRIBE • Third-party call control (RFC 3725)
Security	<ul style="list-style-type: none"> • 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

Provisioning, administration, and maintenance	<ul style="list-style-type: none"> • Integrated web server provides web-based administration and configuration • Integrated voice response system to report and modify configuration parameters • Automated provisioning and upgrade via HTTPS, HTTP, TFTP • Asynchronous notification of upgrade availability via NOTIFY • Nonintrusive in-service upgrades • Report generation and event logging • Statistics transmitted in BYE message • Syslog and debug server records: configurable per line
Physical interfaces	<ul style="list-style-type: none"> • One 10BASE-T RJ-45 Ethernet port (IEEE 802.3) • Handset: RJ-9 connector
Power supply	<ul style="list-style-type: none"> • 5V, 2A Switching Power Adaptor
Indicator lights/LED	<ul style="list-style-type: none"> • Status LED • Message waiting indicator LED
Documentation	<ul style="list-style-type: none"> • Quick-Start Installation and Configuration Guide • User Guide • Administration Guide • Provisioning Guide (for service providers only)
Dimensions (W x H x D)	4.13 x 3.75 x 8.38 in. (104.78 x 95.25 x 212.73 mm)
Unit weight	1.70 lb (0.7711 kg)
Operating temperature	32° to 113°F (0° to 45°C)
Storage temperature	-13° to 185°F (-25° to 85°C)
Operating humidity	10% to 90% noncondensing
Storage humidity	10% to 90% noncondensing
Package Contents	
<ul style="list-style-type: none"> • Cisco SPA901 IP Phone and handset • Handset cord • 5V power adapter • RJ-45 Ethernet cable • Quick Installation Guide 	

Table 2. Cisco SPA IP Phone Comparison Chart

Model	Voice Lines	Ethernet Ports	High-Resolution Graphical Display	PoE Support
SPA901	1	1	No	No
SPA921	1	1	Yes	No
SPA922	1	2	Yes	Yes
SPA941	4	1	Yes	No
SPA942	4	2	Yes	Yes
SPA962	6	2	Color	Yes

Cisco Limited Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with a 2-year limited hardware warranty with return to factory replacement. In addition, Cisco offers software application updates for bug fixes and telephone 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/go/smallbiz>.

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