

## Cisco SPA 303 3-Line IP Phone Cisco Small Business



Basic and Affordable IP Phone for Business or Home Office

### Highlights

- 3-line business-class IP phone
- Connects directly to an Internet telephone service provider or to an IP private branch exchange (PBX)
- Dual switched Ethernet ports, speakerphone, caller ID, call hold, conferencing, and more
- Easy installation and highly secure remote provisioning, as well as menu-based and web-based configuration
- Supports both Session Initiation Protocol (SIP) and Smart Phone Control Protocol (SPCP) with the Cisco® Unified Communications 500 Series

Figure 1. Cisco SPA 303 3-Line IP Phone



### Comprehensive Interoperability and SIP-Based Feature Set

Based on SIP, the Cisco SPA 303 3-Line IP Phone with 2-Port Switch has been tested to help ensure

## Carrier-Grade Security, Provisioning, and Management

The Cisco SPA 303 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.

### Telephony Features

- Three voice lines
- Pixel-based display: 128 x 64 monochrome graphical liquid crystal display (LCD)
- Line status: active line indication, 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, and 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
- Support for Uniform Resource Identifier (URI) (IP) dialing (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 duration and 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 Serial Tunnel (STUN) support
- DNS SRV and multiple A records for proxy lookup and proxy redundancy
- Syslog, debug, report generation, and event logging
- Support for highly secure encrypted voice communications
- 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

\*Feature requires support by call server.

\*\*Feature activated via feature code.

### Hardware Features

- Pixel-based display: 128 x 64 monochrome LCD graphical display
- Dedicated illuminated buttons for:
  - Audio mute on/off
  - Headset on/off
  - Speakerphone on/off
- Four-way rocking directional knob for menu navigation
- Voicemail message waiting indicator 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 LAN ports with integrated Ethernet switch: 10/100BASE-T RJ-45
- 5 VDC universal (100–240V) switching included

### Regulatory Compliance

- FCC (Part 15, Class B) , UL, CE Mark, A-Tick



### Security Features

- Password-protected system, preset to factory defaults
- 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

### Documentation

- Quick-start installation and configuration guide
- User guide
- Administration guide
- Provisioning guide (for service providers only)

### Package Contents

- Cisco SPA 303 IP phone, handset, and stand
- Handset cord
- RJ-45 Ethernet cable
- Power adapter
- Quick installation guide
- CD

## Specifications

Table 1 gives specifications for the Cisco SPA 303 3-Line IP Phone.

**Table 1.** Specifications for the Cisco SPA 303 3-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 SPA 303 at the time of provisioning.

| Description            | Specification  |
|------------------------|--|
| <b>Data networking</b> | <ul style="list-style-type: none"> <li>• MAC address (IEEE 802.3)</li> <li>• IPv4 (RFC 791)</li> <li>• Address Resolution Protocol (ARP)</li> <li>• DNS: A record (RFC 1706), SRV record (RFC 2782)</li> <li>• Dynamic Host Configuration Protocol (DHCP) client (RFC 2131)</li> <li>• Internet Control Message Protocol (ICMP) (RFC 792)</li> <li>• TCP (RFC 793)</li> <li>• User Datagram Protocol UDP (RFC 768)</li> <li>• Real Time Protocol RTP (RFC 1889, 1890)</li> <li>• Real Time Control Protocol (RTCP) (RFC 1889)</li> <li>• Real Time Control Protocol – Extended Report ( RTCP-XR) ( RFC 3611 )</li> </ul> |

| Description  | Specification   |
|--|---|
| <b>Voice gateway</b>                                 | <ul style="list-style-type: none"> <li>• SIP version 2 (RFC 3261, 3262, 3263, 3264)</li> <li>• SPCP with the Cisco Unified Communications 500 Series</li> <li>• SIP proxy redundancy: dynamic via DNS SRV, A records</li> <li>• Re-registration with primary SIP proxy server</li> <li>• SIP support in NAT networks (including STUN)</li> <li>• SIPFrag (RFC 3420)</li> <li>• Highly secure (encrypted) calling via Secure Real-Time Transport Protocol (SRTP)</li> <li>• SIP/TLS</li> <li>• Codec name assignment</li> <li>• Voice algorithms:               <ul style="list-style-type: none"> <li>◦ G.711 (A-law and <math>\mu</math>-law)</li> <li>◦ G.726 (16/24/32/40 kbps)</li> <li>◦ G.729 AB</li> <li>◦ G.722</li> </ul> </li> <li>• Dynamic payload support</li> <li>• Adjustable audio frames per packet</li> <li>• Dual-tone multifrequency (DTMF), in-band and out-of-band (RFC 2833) (SIP INFO)</li> <li>• Flexible dial plan support with interdigit timers</li> <li>• IP address/URI dialing support</li> <li>• Call progress tone generation</li> <li>• Jitter buffer: adaptive</li> <li>• Frame loss concealment</li> <li>• Voice activity detection (VAD) with silence suppression</li> <li>• Attenuation/gain adjustments</li> <li>• Message waiting indicator (MWI) tones</li> <li>• Voicemail waiting indicator (VMWI), via NOTIFY, SUBSCRIBE</li> <li>• Caller ID support (name and number)</li> <li>• Third-party call control (RFC 3725)</li> </ul> |
| <b>Provisioning, administration, and maintenance</b> | <ul style="list-style-type: none"> <li>• Integrated web server provides web-based administration and configuration</li> <li>• Telephone keypad configuration via display menu/navigation</li> <li>• Automated provisioning and upgrade via HTTPS, HTTP, TFTP</li> <li>• Asynchronous notification of upgrade availability via NOTIFY</li> <li>• Nonintrusive in-service upgrades</li> <li>• Report generation and event logging</li> <li>• Statistics transmitted in BYE message</li> <li>• RTCP-XR</li> <li>• Syslog and debug server records: configurable per line</li> </ul>  |
| <b>Power supply</b>                                  | <ul style="list-style-type: none"> <li>• Switching type (100–240V) automatic</li> <li>• DC input voltage: +5 VDC at 1.0A maximum</li> </ul>   |
| <b>Physical interfaces</b>                           | <ul style="list-style-type: none"> <li>• Two 10/100BASE-T RJ-45 Ethernet ports (IEEE 802.3)</li> <li>• Handset: RJ-9 connector</li> <li>• Built-in speakerphone and microphone</li> <li>• Headset 2.5-mm port</li> </ul>  |
| <b>Indicator lights/LED</b>                          | <ul style="list-style-type: none"> <li>• Speakerphone on/off button with LED</li> <li>• Headset on/off button with LED</li> <li>• Mute button with LED</li> <li>• Message waiting indicator LED</li> <li>• LED test function</li> </ul>   |
| <b>Dimensions (W x H x D)</b>                        | 8.66 x 7.80. x 1.18 in. (220 x 198 x 30 mm)   |
| <b>Unit weight</b>                                   | 1.50 lb ( 0.68kg)   |
| <b>Operating temperature</b>                         | 32° ~ 113°F (0° ~ 40°C)   |
| <b>Storage temperature</b>                           | –13° ~ 185°F (–20° ~ 70°C)  |
| <b>Operating humidity</b>                            | 5% to 95% noncondensing   |
| <b>Storage humidity</b>                              | 5% to 95% noncondensing   |

Table 2 compares the SPA 303 with other Cisco Small Business 500 Series IP Phones.

**Table 2.** Cisco Small Business 500 Series IP Phones Comparison

| Model    | Voice Lines | Ethernet Ports | High-Resolution Graphical Display | Power over Ethernet (PoE) Support |
|----------|-------------|----------------|-----------------------------------|-----------------------------------|
| SPA 301G | 1           | 1              | No                                | No                                |
| SPA 303G | 3           | 2              | Yes                               | No                                |
| SPA 501G | 8           | 2              | No                                | Yes                               |
| SPA 502G | 1           | 2              | Yes                               | Yes                               |
| SPA 504G | 4           | 2              | Yes                               | Yes                               |
| SPA 508G | 8           | 2              | Yes                               | Yes                               |
| SPA 509G | 12          | 2              | Yes                               | Yes                               |
| SPA 525G | 5           | 2              | Color                             | Yes                               |

Tables 3 and 4 provide ordering information for the Cisco SPA 303 and accessories.

**Table 3.** Ordering Information

| Part Number  | Description   |
|--------------|---|
| SPA303-G1    | Cisco SPA 303 IP Phone, North America power adapter |
| SPA303-G2    | Cisco SPA 303 IP Phone, Europe power adapter        |
| SPA303-G3    | Cisco SPA 303 IP Phone, UK power adapter            |
| SPA303-G4    | Cisco SPA 303 IP Phone, Australia power adapter     |
| CON-SBS-SVC1 | 3-year Small Business Support Service               |

**Table 4.** Optional Accessories

| Part Number | Description  |
|-------------|--|
| MB100       | Wall-mount brackets for SPA 300, SPA 500, CP 500, and SPA 900 Series |