

# Cisco SPA301 IP Phone



Product Name: Cisco SPA301 IP Phone

Manufacturer: Cisco Systems

Model Number: SPA-301

## Cisco SPA 301 IP Phone

The Cisco SPA 301 IP Phone is an affordable 1-line SIP based entry level phone for business or home office use. The Cisco SPA301 has been tested to ensure comprehensive interoperability. The SPA301 also offers a number of key features such as; music on hold, call waiting, call blocking and many more features which you can see below.

### Cisco SPA301 IP Phone Key Features

- Basic 1-line business-class IP phone
- Connects directly to an Internet telephone service provider or to an IP private branch exchange (PBX)
- Easy installation and secure remote provisioning, as well as web-based configuration
- Supports both Session Initiation Protocol (SIP) and Smart Phone Control Protocol (SPCP) with the Cisco Unified Communications 500 Series

### Carrier-Grade Security, Provisioning, and Management

The SPA 301 IP Phone performs highly secure remote provisioning and unobtrusive in-service software upgrades using standard encryption protocols. 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. Comprehensive Interoperability and SIP-Based Feature Set



## Cisco SPA 301 IP Phone Technical Specifications

### Telephony Features

- One voice line
- Music on hold
- Call waiting
- Outbound caller ID blocking
- Call transfer: attended and blind ( SIP Only )
- Three-way call conferencing with local mixing
- Multiparty conferencing via external conference bridge
- Automatic redial of last calling and last called numbers
- Call pickup: selective and group
- 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
- Digits dialed with number auto-completion
- Anonymous caller blocking
- Support for Uniform Resource Identifier (URI) (IP) dialing (vanity numbers)

- Multiple ring tones with selectable ring tone per line
- Call duration and start time stored in call logs in web GUI
- 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

## Hardware Features

- Voicemail message waiting indicator light
- Voicemail message retrieval button
- Volume control
- Redial Button
- Flash Button
- Standard 12-button dialing pad
- High-quality handset
- One Ethernet WAN port 10/100BASE-T RJ-45
- 5 VDC universal (100-240V) switching power adaptor included

## 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 Protocol (RTP) (RFC 1889, 1890)
- Real Time Control Protocol (RTCP) (RFC 1889)
- Real Time Control Protocol - Extended Report (RFC 3611)
- 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)

## Voice Gateway

- 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
- Re-registration with primary SIP proxy server
- SIP support in NAT networks (including STUN)
- SIPFrag (RFC 3420)

- Highly secure (encrypted) calling via Secure Real-Time Transport Protocol (SRTP)
- SIP/TLS
- Codec name assignment
- Voice algorithms: G.711 (A-law and  $\mu$ -law), G.726 (16/24/32/40 kbps), G.729 AB, 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
- Voice activity detection (VAD) with silence suppression
- Attenuation/gain adjustments
- Message waiting indicator (MWI) tones
- Voicemail waiting indicator (VMWI), via NOTIFY, SUBSCRIBE
- Caller ID support (name and number)
- Third-party call control (RFC 3725)

## Provisioning, Administration and Maintenance

- Integrated web server provides web-based administration and configuration
- Automated provisioning and upgrade via TFTP, HTTP or HTTPS
- Asynchronous notification of upgrade availability via NOTIFY
- Nonintrusive in-service upgrades
- Report generation and event logging
- Statistics transmitted in BYE message
- RTCP-XR
- Syslog and debug server records: configurable per line

## Power Supply

- Switching type (100-240V) automatic
- DC input voltage: +5 VDC at 1.0A maximum

## Physical Interfaces

- One 10/100BASE-T RJ-45 Ethernet port (IEEE 802.3)
- Handset: RJ-9 connector

## 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

## Package Contents

- Cisco SPA 301 IP phone, handset
- Handset cord
- RJ-45 Ethernet cable
- Power adapter
- Quick installation guide

- CD

## Physical

- Dimensions (W x H x D): 7.76 x 3.82 x 1.77 inches (194 x 97 x 45 mm)
- Unit Weight: 1.7 lb ( 0.7711 kg)
- Operating Temperature: 32° ~ 113°F (0° ~ 40°C)
- Storage Temperature: -13° ~ 185°F (-20° ~ 70°C)
- Operating Humidity: 5% to 95% noncondensing
- Storage Humidity: 5% to 95% noncondensing

## Regulatory Compliance

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

**Price: £44.00**

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