

# Cisco SPA504G IP Phone



Product Name: Cisco SPA504G IP Phone

Manufacturer: Cisco Systems

Model Number: SPA-504G

## Cisco SPA 504G IP Phone

The Cisco SPA504G is an IP Phone that has 4-Lines with Power over Ethernet (PoE), an LCD Display and a 2-Port Switch. As part of the Cisco Small Business Pro Series, the SPA 504G has been tested to ensure comprehensive interoperability with equipment from voice over IP infrastructure leaders. This enables service providers to produce competitive, feature-rich services and release them to their customers.

### Cisco SPA 504G IP Phone Key Features

- For business or home office use
- Full-featured 4-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)
- Dual switched Ethernet ports for connecting a computer behind the phone, reducing cabling costs
- 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 SPA500S 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

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

The Cisco SPA504G 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.

### Comprehensive Interoperability and SIP-Based Feature Set

With hundreds of features and configurable service parameters, the Cisco SPA 504G IP Phone 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 Cisco SPA 504G IP Phone. The Cisco SPA 504G 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.

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Feature	SPA504G	SPA504G-EXP	SPA504G-EXP-2	SPA504G-EXP-3	SPA504G-EXP-4
4-Line Business-Class IP Phone	Yes	Yes	Yes	Yes	Yes
Power over Ethernet (PoE)	Yes	Yes	Yes	Yes	Yes
Monochrome Backlit Display	Yes	Yes	Yes	Yes	Yes
Dual Switched Ethernet Ports	Yes	Yes	Yes	Yes	Yes
Wideband Audio	Yes	Yes	Yes	Yes	Yes
Easy Installation and Remote Provisioning	Yes	Yes	Yes	Yes	Yes
Supports up to 2 Expansion Modules	Yes	Yes	Yes	Yes	Yes
Supports SIP and SPCP	Yes	Yes	Yes	Yes	Yes

## Cisco SPA 504G VoIP Phone Technical Specifications

### Telephony Features

- Four Independent SIP Registrations

- Line status: active line indication, with name and number
- 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
- Call pickup: selective and group
- 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
- 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
- Automated remote provisioning, multiple methods; up to 256-bit encryption (HTTP, HTTPS, Trivial File Transfer Protocol [TFTP])

## 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)

## 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 (RFC793)
- 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)

## 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
- 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  $\mu$ -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
- Message waiting indicator (MWI) tones
- 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
- Telephone keypad configuration via display menu/navigation
- 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

## 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 2.5-mm port

## 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)

## Package Contents

- Cisco SPA 504G IP Phone, handset, and stand
- Handset cord
- RJ-45 Ethernet cable
- Quick-Start Guide
- CD

## Physical

- Body Dimensions (W x H x D): 8.42 x 8.35. x 1.73 in. (214 x 212 x 44 mm)
- Unit Weight: 2.00 lb ( 0.9kg)
- Operating Temperature: 32&ordm; ~ 104&ordm;F (0&ordm; ~ 40&ordm;C)
- Storage Temperature: -4&ordm; ~ 158&ordm;F (-20&ordm; ~ 70&ordm;C)
- Operating Humidity: 5% to 95% noncondensing
- Storage Humidity: 5% to 95% noncondensing

## Regulatory Compliance

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

**Price: £100.10**

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# Cisco SPA504G IP Phone

Options available for Cisco SPA504G IP Phone :

## Power Supply Required

Required (+£9.00), Not Required.

VoIPVN <http://voip.com.vn>