

## TELEFONO SPA941

### Hardware

- Pixel-based display - 128 x 64 monochrome graphical liquid crystal display (LCD)
- Four illuminated call appearance line buttons with tricolor LEDs
- LED indicates line state - active, idle, on hold, unregistered
- Line LED configurable to 13 different states (on/off, color, flash)
- Dedicated illuminated on/off buttons for audio mute, headset, and speakerphone
- 4 soft-key buttons
- 4-way rocking directional button for menu navigation
- Support for up to 2 attached attendant consoles; adds up to 64 programmable buttons
- 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 button controls handset, headset, speaker, ringer
- Standard 12-button dialing pad
- High-quality handset (RJ-7 connector) and cradle
- Built-in high-quality microphone and full-duplex speakerphone
- Headset jack - 2.5-mm port
- LED test function
- Two Ethernet LAN ports with integrated Ethernet Switch - 100BASE-T, RJ-45
- 802.3af compliant PoE
- Optional 5V DC universal (100-240V) switching (power supply is ordered separately)



### Data Networking

**MAC address** - IEEE 802.3

**IPv4** - IPv4 (RFC 791), upgradeable to v6 (RFC 1883)

**ARP** - Address Resolution Protocol

**DNS** - A record (RFC 1706), SRV record (RFC 2782)

**DHCP** - Dynamic Host Configuration Protocol (RFC 2131)

**ICMP** - Internet Control Message Protocol (RFC 792)

**TCP** - Transmission Control Protocol (RFC 793)

**UDP** - User Datagram Protocol (RFC 768)

**RTP** - Real Time Protocol (RFC 1889) (RFC 1890)

**RTCP** - Real Time Control Protocol (RFC 1889)

**DiffServ** - Differentiated Services (RFC 2475)

**Type of service (ToS)** - RFC 791/1349

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**VLAN tagging 802.1p/Q** - Layer 2 QoS  
**SNTP** - Simple Network Time Protocol (RFC 2030)

### Voice

- SIP version 2 (RFC 3261, 3262, 3263, 3264)
- SIP proxy redundancy - dynamic via DNS SRV, A records
- Re-registration with primary SIP proxy server
- SIP support in NAT networks - NAT (including serial tunnel [STUN])
- SIPFrag (RFC 3420)
- Secure (encrypted) calling via prestandard implementation of SRTP
- Codec name assignment
- Voice algorithms: 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
- Dual-tone multifrequency (DTMF) - in-band and out-of-band (RFC 2833) (SIP INFO)
- Flexible dial plan support 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 - voicemail waiting indicator - via NOTIFY, SUBSCRIBE
- Caller ID support (name and number)
- Third-party call control (RFC 3725)

### Security

- 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

**Dimensions W x H x D:** 7.68 x 6.3 x 7.09 in. (195 x 160 x 180 mm)

**Weight:** 2.15 lb (0.9752 kg)

### **Power**

- DC input voltage: +5V DC at 2.0A maximum
- Power consumption: 5W
- Switching type (100-240V) automatic
- Optional power adapter (Cisco PA100 Power Supply for Small Business VOIP): 100-240V 50-60 Hz (26-34VA) AC input

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**Certification:** FCC (Part 15, Class B), CE, A-Tick, ICES-003

**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**

- Cisco SPA942 4-Line IP Phone with 2-Port Switch
- Handset cord
- RJ-45 Ethernet cable
- Quick installation guide

(Optional power supply is ordered separately)

### **Documentation**

- Installation and configuration guide
- User guide
- Administration guide
- Provisioning guide - for service providers only

### **Product Warranty**

1-year limited hardware warranty with return to factory replacement and 90-day limited software warranty