IP Telephone

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

Comprehensive Interoperability and SIP Based Feature Set

Based on the SIP standard, the SPA901 has been tested to ensure comprehensive interoperability with equipment from 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 SPA901 addresses the requirements of traditional business users while leveraging 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 SPA901 uses standard encryption protocols to provide secure remote provisioning and unobtrusive in-service software upgrades. Linksys 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 hassle and expense of managing, pre-loading, and re-configuring customer premise equipment (CPE).

Model No. **SPA901**

PRODUCT DATA

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Telephony Features

- One Service Provider Line
- 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 Pick Up - 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
- URI (IP) Dialing Support (Vanity Numbers)
- Built-in Web Server for Administration and Configuration, with User and Admin 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
- Ten User Downloadable Ring Tones - Ring Tone Generator Free from www.linksys.com
- Speed Dial (8 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
- NAT Traversal
- Automated Provisioning, Multiple Methods. Up to 256 Bit Encryption: (HTTP, HTTPS, TFTP)
- Support Linksys Voice System Automatic Configuration
- Optionally Require Admin Password to Reset Unit to factory defaults

** Feature requires support by call server

Hardware

- Voice Mail 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 – 10BaseT RJ-45
- 5 volt DC Universal (100-240 Volt) Switching Power Adaptor

Model	SPA901
	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.
Data Networking	MAC Address (IEEE 802.3)
	IPv4 - Internet Protocol v4 (RFC 791) upgradeable to v6 (RFC 1883)
	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 (RFC792)
	TCP - Transmission Control Protocol (RFC793)
	UDP - User Datagram Protocol (RFC768)
	RTP - Real Time Protocol (RFC 1889) (RFC 1890)
	RTCP - Real Time Control Protocol (RFC 1889)
	DiffServ (RFC 2475), Type of Service - TOS (RFC 791/1349)
	VLAN Tagging 802.1p/q - Layer 2 QoS
	SNTP - Simple Network Time Protocol (RFC 2030)
Voice Gateway	SIPv2 - Session Initiation Protocol 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 Network Address Translation Networks - NAT (including STUN)
	SIPFrag (RFC 3420)
	Secure (Encrypted) Calling via Pre-Standard Implementation of Secure RTP
	Codec Name Assignment
	Voice Algorithms:
	- G.711 (A-law and mμ-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 Inter-Digit 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	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 AES Encryption
Provisioning, Administration, and Maintenance:	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
	Non-intrusive, In-Service Upgrades
	Report Generation and Event Logging
	Statistics Transmitted in BYE Message
	Syslog and Debug Server Records - Configurable Per Line
Physical Interfaces:	1 10baseT RJ-45 Ethernet Port (IEEE 802.3)
	Handset: RJ-7 Connector
Power Supply:	Switching Type (100-240v) Automatic
	DC Input Voltage: +5 Volts DC at 2.0 Amps Maximum
	Power Consumption: 5 Watts
	Power Adapter: 100-240v - 50-60Hz (26-34VA) AC Input, 1.8m cord
Indicator Lights/LED:	Status LED
	Message Waiting Indicator LED
	Flash Button with Indicator LED
	LED Test Function
Documentation:	Quick-Start Installation and Configuration Guide
	User Guide
	Administration Guide
	Provisioning Guide - For Service Providers Only

Environmental

Dimensions (W x H x D):	4.13 x 3.75 x 8.38 inches (104.78 x 95.25 x 212.73 mm)
Unit Weight:	1.70 lbs (0.7711 kg)
Operating Temperature:	32 to 113 º F (0 to 45 º C)
Storage Temperature:	-13 to 185 º F (-25 to 85 º C)
Operating Humidity:	10 to 90% Non-condensing
Storage Humidity:	10 to 90% Non-condensing

Package Contents

- SPA901 IP Phone and Handset
- Handset Cord - 56 cm (26 in)
- 5v Power Adapter - 1.8 m (6 ft) Cord
- RJ45 Ethernet Cable - 1.8 m (6 ft) Cord
- Quick Installation Guide

Linksys IP Telephone Comparison Chart

SPA Model	Voice Lines	Ethernet Ports	High Resolution Graphical Display	Power over Ethernet Support
SPA901	1	1	N	N
SPA921	1	1	Y	N
SPA922	1	2	Y	Y
SPA941	2-4	1	Y	N
SPA942	2-4	2	Y	Y