

Linksys SPA-1001



The Linksys SPA1001 is inexpensive, easy to install and simple to use. The SPA1001 features one RJ11 POTS port for connection to existing analog phones, fax machines, PBX and key system communication platforms and also includes an Ethernet interface for connection to a home or office LAN.

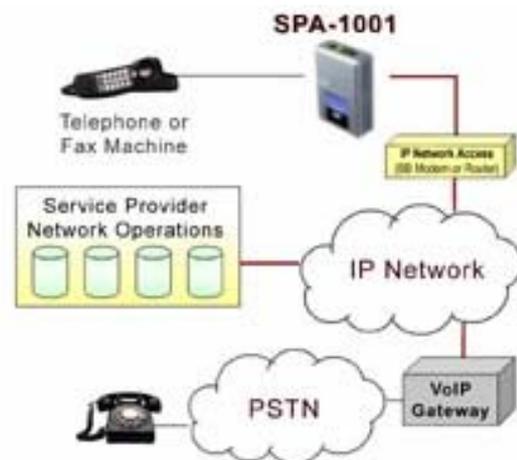
The SPA1001 can be used in consumer and business due to its advanced features from VoIP platform implementation. The SPA1001 delivers clear sounding voice and reliable fax calling through its implementation of internationally recognized standards for voice and data networking.

For ITSP's, the SPA1001 offers all the key features and capabilities with which service providers can provide customised services to their subscribers.

The Linksys device can be remotely provisioned and supports dynamic, in-service software upgrades. A secure profile upload saves providers the time, expense and hassle of managing and preconfiguring or reconfiguring equipment for deployment.

● Key Features

- One RJ11 POTS for connecting analog phones and fax machines
- Ethernet interface for connection to LAN
- Can be used in consumer and business IP telephony
- Delivers clear sounding voice and reliable fax calling
- Music On Hold
- Call Waiting
- Caller ID
- Call Forwarding
- Do Not Disturb
- Call Transfer
- Message Waiting Indication
- Speed Dialling of 8 Numbers



Linksys SPA-1001

Telephony Features

- One voice port (RJ-11) for analog phones or fax machines
- Impedance agnostics – 8 Configurable settings
- Call Waiting, cancel call waiting, call waiting Caller ID
- Caller ID with Name/number (multi-national variants)
- Caller ID blocking
- Call forwarding: no answer, busy, all
- Do not disturb
- Call transfer
- Message waiting indication – visual and tone based
- Call return
- Call back on busy
- Call blocking with tol restriction
- Delayed disconnect
- distinctive Ringing – Calling and called number
- Off-hook warning tone
- Selective/Anonymous call rejection
- Hot line and warm line calling
- Speed dialling of 8 numbers/addresses
- Music on hold

Package contents

- SPA-1001 phone adapter unit
- Power adapter
- RJ-45 Ethernet cable
- Quick installation guide

Specifications

Data networking

- MAC address (IEEE 802.3)
- Ipv4 – Internet protocol v 4 (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 (RFC)
- UDP – User Data 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)
- SNTP – Simple network time protocol (RFC 2030)

Voice gateway

- SIPv2: Session initiation protocol v2 (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 (incl. STUN)
- Secure (encrypted) calling via pre-standard implementation of secure RTP
- Codec name assignment

Voice algothems

- G.711 (A-law and u-law)
- G.726 (16/24/32/40 kbps)
- G.729 A
- G.723.1 (63 kbps, 5.3 kbps)
- Dynamic Payload
- Adjustable audio frames per packet

Call Capability

- Fax tone detection pass-through -using G.711
- DTMF: In band and out of band (RFC 2833) (SIP Info)
- Flexible dial plan support with inter digit times and Ip dialling
- Call progress tone generation]
- Jitter buffer – adaptive
- Frame loss concealment
- Full duplex audio
- Echo cancellation (G.165/G.168)
- VAD – Voice activity detection with silence suppression
- Attenuation / Gain adjustments
- Flash hook timer
- MWI – Message waiting indicator tones

- VMWI – via FSK
- Polarity Control
- Hook flash event signalling
- Caller ID generation (Name and number) – Bellcore, DTMF, ETSI
- Music on hold client
- Streaming audio server – up to 10 sessions

Security

- Password protected system reset to factory default
- Password protected admin and user access authority
- Provision/configuration/authentication:
- HTTPS with factory installed client certificate
- HTTP digest – Encrypted authentication via MD5 (RFC 1321)
- Up to 256-bit AES Encryption

Provisioning, administration and maintenance

- Web browser administration and configuration via integral web server
- Telephone key pad configuration with interactive voice prompts
- 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
- Syslog and debug server recorded – per line configurable

Physical interface

- 1 10baseT RJ-45 Ethernet port (IEEE 802.3)
- 1 RJ-11 FXS Phone port– for analog circuit telephone device (tip/ring)

Interface circuit (SLIC)

- Ring voltage: 40-55 VRMS configurable
- Ring frequency: 10 Hz – 40Hz
- Ring waveform: Trapezoidal and sinusoidal
- maximum ringer load: 3 REN
- On-hook/off hook characteristics:
- On-hook voltage (tip/ring): -50 V NOMINAL
- Off-hook current: 25 mA min
- Terminating impedance: 8 configurable settings including North America 600 ohms, European CTR21

Regulatory Compliance

FCC (part 15, class B), cUL, CE, IC-003, A-tick

Power supply

- DC input voltage: +VDC at 2.0 A Max
- Power consumption: 5 watts
- Switching type (100-240v) Automatic
- Power adapter: 100-240v – 50-60Hz (26-34VA) AC input, 1.8m cord

Indicator lights/LED

LAN Activity/Link LED- Green
Status LED (In-Use, Provisioning, Idle, Alert) - Amber

Documentation

- Quick-Start installation and configuration guide
- User guide

Dimensions

- 94mm x 63mm x 28mm

Unit weight

- 76.5g/ 2.7oz

Operating temp

- 32° to 113°F (0° to 45°C)

Storage Temp.

- -77° to 158°F (-25° to 45°C)

Operating humidity

- 10 to 90% non condensing

Storage humidity

- 10 to 90% non condensing 000