ProVu Communications
Linksys SPA-1001

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

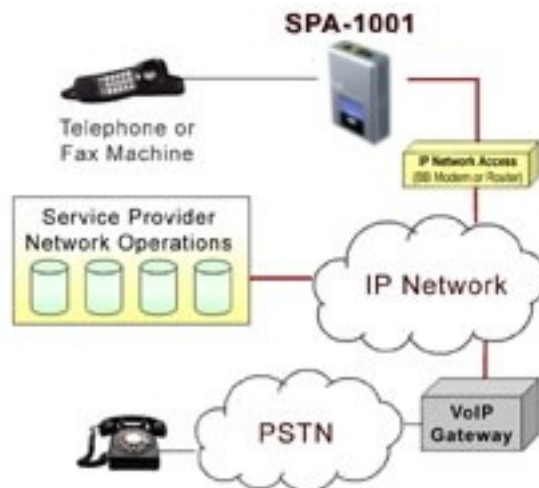- Message Waiting Indication

- Speed Dialling of 8 Numbers

The Linksys SPA-1001 is inexpensive, easy to install and simple to use. The SPA-1001 features one RJ-11 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 SPA-1001 can be used in consumer and business due to its advanced features from VoIP platform implementation. The SPA-1001 delivers clear sounding voice and reliable fax calling through its implementation of internationally recognized standards for voice and data networking.

For ITSP's, the SPA-1001 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 pre-configuring or re-configuring equipment for deployment.

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Technical Data

ProVu Communications
Linksys SPA-1001

Telephony Features
- One voice port (RJ-11) for analog phones or fax machines
- Imedance 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 algiotherms
- 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 andsinusoidal
- 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 imedance: 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
- 32º to 113ºF (0º to 45ºC)

Storage Temp.
- -77º to 158ºF (-25º to 45ºC)

Operating humidity
- 10 to 90% non condensing

Storage humidity
- 10 to 90% non condensing000

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