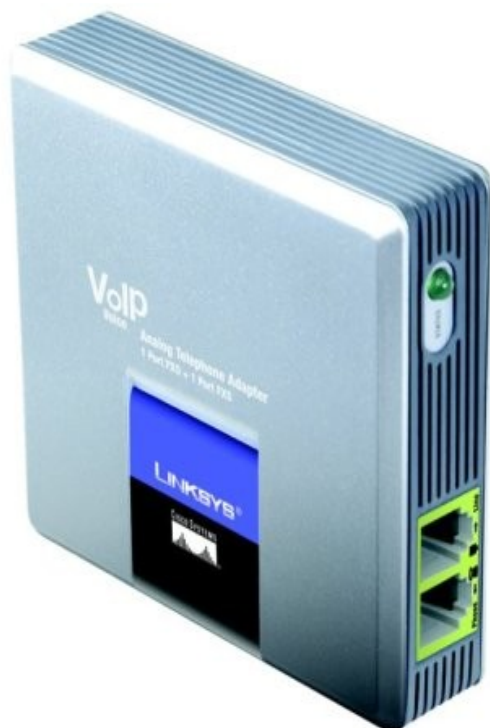


# ProVu Communications Linksys SPA-3000



- ### Key Features
- 1 FXO (phone line port)
  - 1 Telephone Port
  - Call Waiting
  - Caller ID
  - Call Forwarding to PSTN or VoIP
  - Do Not Disturb
  - Call Transfer
  - Three-Way Conference Calling
  - Message Waiting Indication
  - Speed Dialling of 8 Numbers
  - Music on Hold

The SPA-3000 is a SIP VoIP gateway with connections for 1 Telephone (FXS) and 1 Telephone line (FXO).

The FXO port allows for numerous configurations, including Long line extensions and In-line VoIP replacement. The FXO and FXS port operate as two independent gateways - two separate calls can be carried at the same time.

The SPA-3000 is able to read UK called ID on the FXO port, and write UK caller ID on the FXS port.

The SPA-3000 includes an RJ45 Ethernet for connection to a home or office LAN. The FXS and FXO lines can be independently configured and deliver clear sounding voice standards.

The device can also be remotely configured and supports inservice downloadable upgrades.

SPA Model	Service Lines	Active Calls	3 Way Conference	PSTN (FXO) Connection
SPA-2100	2	4	2	0
SPA-200	2	4	2	0
SPA-1001	1	2	1	0
SPA-3000	2	3	1	1



# Technical Data

## ProVu Communications

### Linksys SPA-2100



#### Telephony Features

- 2 voice port (RJ-11) fone LAN one WAN
- 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-2100 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

##### 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

##### SPA3000 Specific Features

- Forward Calls to VoIP Service
- Forward Calls to PSTN Service
- PSTN Line Sharing with Multiple Extensions
- Advanced Inbound and Outbound Call Routing
- Single Stage and Two Stage Dialling
- Independent Configurable Dial Plans- Up to 8
- VoIP to PSTN Authentication and Routing
- PSTN to VoIP Authentication and Routing

##### FXO Behaviour Features

- VoIP Answer Delay Timer
- PSTN Answer Delay Timer
- VoIP PIN Digit Time-out Timer
- PSTN PIN Digit Time-out Timer
- VoIP to PSTN Call Max Dur Timer
- PSTN to VoIP Call Max Dur Timer
- VoIP DLG Refresh Intercal Timer
- PSTN Ring Through Delay Timer
- PSTN Dialling Delay Timer
- PSTN Ring Time-out Timer

##### PSTN Disconnection Detection Features

- CPC (Removal of Tip/Ring Voltage Momentarily)
- Polarity Reversal
- Long Silence (Configurable Time Setting)
- Disconnect Tone (e.g. Reorder Tone)

##### Physical interface

- 1 RJ-45 Port- Ethernet10 base Interface
- 1 RJ-11 FXS Port
- 1 RJ-11 FXO Port

##### 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 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  
Status LED (In-Use, Provisioning, Idle, Alert) – Amber

##### Documentation

- Quick-Start installation and configuration guide
- User guide

##### Dimensions

- 110mm x 93mm x 35 mm

##### Unit weight

- 490g/ 1.08oz

##### 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 condensing000

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