

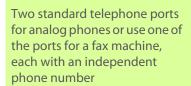


# **Internet Phone Adapter with 2 Ports for Voice-over-IP**

# **PRODUCT DATA**

Enables feature-rich telephone service over your broadband Internet connection

# Feature-Rich VoIP Service through your High-Speed Internet Connection





High quality, clear sounding voice service simultaneous with Internet use

Compatible with all common telephone features: Caller ID, Call Waiting, Voicemail, etc.

## **PRODUCT DATA**

Model No.

PAP2T

#### **Features**

# **Package Contents**

# **Specifications**

#### **Telephony**

- Two voice ports (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
- Three-way Conference Calling with Local Mixing
- · Message Waiting Indication Visual and Tone Based
- Call Return
- · Call Back on Busy
- · Call Blocking with Toll Restriction
- · Delayed Disconnect
- · Distinctive Ringing Calling and Called Number
- Off-hook Warning Tone
- Selective/Anonymous Call Rejection
- · Hot line and Warm Line Calling
- Speed Dialing of 8 Numbers/Addresses
- · Music on Hold
- PAP2T Phone Adapter Unit
- · Power Adapter
- RJ-45 Ethernet Cable
- · Ouick Installation Guide

#### Model PAP21

\* Note: Many specifications are programmable within a defined range or list of options. Please see the PAP2T Administration Guide for details. The configuration profile is

uploaded to the PAP2T 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)

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 Algorithms G.711 (A-law and µ-law)

Fax Capability

G.726 (16/24/32/40 kbps)

G.729 A

G.723.1 (6.3 kbps, 5.3 kbps)

Dynamic Payload

Adjustable Audio Frames per Packet Fax Tone Detection Pass-Through

Fax Pass-Though - Using G.711

DTMF: In-band & Out-of-band (RFC 2833) (SIP Info)

Flexible Dial Plan Support with Interdigit Timers and IP Dialing

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

# - ...

### **PRODUCT DATA**

Model No.

PAP2T

# **Specifications**

Attenuation / Gain Adjustments

Flash Hook Timer

MWI - Message Waiting Indicator Tones

VMWI - via FSK Polarity Control

**Hook Flash Event Signaling** 

Caller ID Generation (Name & 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

Provisioning/Configuration/Authentication: HTTPS with Factory Installed Client Certificate

HTTP Digest - Encrypted Authentication via MD5 (RFC 1321)

Up to 256-bit AES Encryption

Provisioning, Administration & Maintenance: Web Browser Administration & Configuration via Integral Web Server Telephone Key Pad Configuration with Interactive Voice Prompts Automated Provisioning & Upgrade via HTTPS, HTTP, TFTP Asynchronous Notification of Upgrade Availability via NOTIFY

Non-intrusive, In-Service Upgrades Report Generation & Event Logging

Stats in BYE Message

Syslog & Debug Server Records - Per Line Configurable

Physical Interfaces: 1 10baseT RJ-45 Ethernet Port (IEEE 802.3)

2 RJ-11 FXS Phone Ports - For Analog Circuit Telephone Device (Tip/Ring)

Subscriber Line Interface Circuit Ring Voltage: 40-55 VRMS Configurable \* Ring Frequency: 10 Hz - 40 Hz \*

(SLIC):

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

Regulatory North America 600 ohms, European CTR21
Compliance: FCC (Part 15, Class B), cUL, CE, IC-003, A-Tick
Power Supply: DC Input Voltage: +5 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: Documentation:

Power, Ethernet, Phone1, Phone2

Quick-Start Installation and Configuration Guide

User Guide

Administration Guide - Service Providers Only Provisioning Guide - Service Providers Only

## **Environmental**

Dimensions 3.98" x 3.98" x 1.10" (101mm x 101mm x 28mm) W x H x D

Unit Weight 5.40 oz. (0.153kg)
Operating Temp. 32° to 113°F (0° to 45°C)
Storage Temp. -77° to 158°F (-25° to 70°C)
Operating Humidity 10 to 90% Non-condensing
Storage Humidity 10 to 90% Non-Condensing

The Linksys Internet Phone Adapter enables high-quality feature-rich VoIP (voice over IP) service through your broadband Internet connection. Just plug it into your home Router or Gateway and use the two standard telephone ports to connect analog phones or use one of the ports for a fax machine. Each phone port operates independently, with separate phone service and phone numbers, like having two telephone lines. You'll get clear reception and a reliable fax connection, even while using the Internet at the same time.

With Internet telephony, along with low domestic and international phone rates, an impressive array of special telephone features are available. Choose your preferred free local dialing area code, regardless of where you live. Or add a virtual telephone number in any area code, forwarded to your Internet phone. You can even add a toll-free number. The Linksys Internet Phone Adapter is compatible with these and all of the other special telephone features that are available from your Internet telephony service provider, such as Caller ID, Call Waiting, Voicemail, Call Forwarding, Distinctive Ring, and much more.

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