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

Enables feature-rich telephone service over your broadband Internet connection

Two standard telephone ports for analog phones or use one of the ports for a fax machine, each with an independent phone number
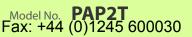
High quality, clear sounding voice service simultaneous with Internet use

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

Model No. **PAP2T**

PRODUCT DATA

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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
- Quick Installation Guide

Model	PAP2T
	* 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)
	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 Capability	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

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 10/100baseT RJ-45 Ethernet Port (IEEE 802.3)
2 RJ-11 FXS Phone Ports - For Analog Circuit Telephone Device (Tip/Ring)

Subscriber Line Interface Circuit (SLIC):
Ring Voltage: 40-55 VRMS Configurable *
Ring Frequency: 10 Hz - 40 Hz *
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: +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: Phone1, Phone2, Internet, Power

Documentation:
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.	32º to 113ºF (0º to 45ºC)
Storage Temp.	-77º to 158ºF (-25º to 70ºC)
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 fax machines. Each phone port operates independently, with separate phone service and phone numbers, like having two telephone lines. You'll get clear reception and reliable fax connections, 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 local dialing number, regardless of where you live. Or add a virtual telephone number to have 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 telephone service provider, such as Caller ID, Call Waiting, Voicemail, Call Forwarding, Distinctive Ring, and much more.

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