

Cisco PAP2T Internet Phone Adapter with 2 VoIP Ports Cisco Small Business Voice Gateways and ATAs

Feature-Rich VoIP Service Through Your High-Speed Internet Connection

Highlights

- Enables high-quality feature-rich voice over IP (VoIP) service through your broadband Internet connection
- Dual standard telephone ports for use with analog phones or fax machines, with independent phone numbers
- High-quality, clear-sounding voice, using advanced voice quality of service (QoS) capability
- Compatible with all common telephone features, such as caller ID, call waiting, and voicemail

Figure 1. Cisco PAP2T Internet Phone Adapter with 2 VoIP Ports



Product Overview

The Cisco PAP2T Internet Phone Adapter with 2 VoIP Ports (Figure 1) enables high-quality feature-rich VoIP 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.

With Internet telephony, along with low domestic and international phone rates, impressive arrays 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 Cisco PAP2T 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.

Features

Telephony

- Two voice ports (RJ-11) for analog phones or fax machines
- · Impedance agnostics eight configurable settings
- Call waiting, cancel call waiting, call waiting caller ID
- Caller ID with name/number (multinational 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 eight numbers/addresses
- · Music on hold

Specifications

Table 1 contains the specifications and package contents for the Cisco PAP2T Internet Phone Adapter with 2 VoIP Ports.

 Table 1.
 Specifications for the Cisco PAP2T Internet Phone Adapter with 2 VoIP Ports

*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 (RFC 791) upgradeable to v6 (RFC 1883)
	Address Resolution Protocol (ARP)
	 DNS-A record (RFC 1706), SRV record (RFC 2782)
	 Dynamic Host Configuration Protocol (DHCP) client (RFC 2131)
	 Internet Control Message Protocol (ICMP) (RFC 792)
	• TCP (RFC 793)
	User Datagram Protocol (UDP) (RFC 768)
	Real Time Protocol (RTP) (RFC 1889) (RFC 1890)
	Real Time Control Protocol (RTCP) (RFC 1889)
	• Differentiated Services (DiffServ) (RFC 2475), type of service (ToS) (RFC 791/1349)
	Simple Network Time Protocol (SNTP) (RFC 2030)
Voice gateway	Session Initiation Protocol (SIP) v2 (RFC 3261, 3262, 3263, 3264)
	 SIP proxy redundancy - dynamic via DNS SRV, A records deregistration with prima SIP proxy server
	 SIP support in network address translation (NAT) networks (including Serial Tunnel [STUN])
	Highly secure (encrypted) calling via prestandard 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
	 Dual-tone multifrequency (DTMF): in-band and 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)
	 Voice activity detection (VAD) with silence suppression
	Attenuation/gain adjustments
	Flash hook timer
	Message waiting indicator (MWI) tones
	 Visual messaging waiting indicator (VMWI) via frequency shift keying (FSK)
	Polarity control
	Hook flash event signaling
	 Caller ID generation (name and number) - Bellcore, DTMF, European Telecommunications Standards Institute (ETSI)
	Music on hold client
	Streaming audio server - up to 10 sessions

Security	Password-protected system reset to factory default
	Password-protected administrator 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 Advanced Encryption Standard (AES) encryption
Provisioning, administration,	Web browser administration and configuration via integral web server
and maintenance	Telephone keypad configuration with interactive voice prompts
	 Automated provisioning and upgrade via HTTPS, HTTP, Trivial File Transfer Protocol (TFTP)
	Asynchronous notification of upgrade availability via NOTIFY
	Nonintrusive, in-service upgrades
	Report generation and event logging
	Stats in BYE message
	Syslog and debug server records - per-line configurable web browser
Physical interfaces	One 10BASE-T RJ-45 Ethernet port (IEEE 802.3)
	2 RJ-11 FXS phone ports - for analog circuit telephone device (tip/ring)
Subscriber line interface	Ring voltage: 40–55 volts root mean square (Vrms) configurable *
circuit (SLIC)	Ring frequency: 10–40 Hz *
	Ring waveform: trapezoidal and sinusoidal *
	Maximum ringer load: 3 ringer equivalence numbers (RENs)
	On-hook/off-hook characteristics:
	On-hook voltage (tip/ring): -50V 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: +5V DC at 2.0A max.
	Power consumption: 5W
	Switching type (100–240V) automatic
	 Power adapter: 100–240V - 50–60 Hz (26–34 VA) AC input, 1.8 m 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 in.
WxHxD	(101 x 101 x 28 mm)
Unit weight	5.40 oz (153 g)
Operating temp.	32º to 113ºF (0º to 45ºC)
Storage temp.	-77° to 158°F (-25° to 70°C)
Operating humidity	10% to 90% noncondensing
Storage humidity	10% to 90% noncondensing
Package Contents	
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- Cisco PAP2T Internet Phone Adapter with 2 VoIP Ports
- Power adapter
- RJ-45 Ethernet cable
- Quick installation guide

Product Warranty

1-year limited hardware warranty with return to factory replacement and 90-day limited software warranty

Cisco Limited Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with a 1-year limited hardware warranty with return to factory replacement and a 90-day limited software warranty. In addition, Cisco offers software application updates for bug fixes and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to: http://www.cisco.com/go/smallbiz.

Product warranty terms and other information applicable to Cisco products are available at http://www.cisco.com/go/warranty.

For More Information

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