Zoom Voice over IP Telephone Adapter

Economical solution provides Voice over the Internet using conventional telephones

Provides one FXS and one FXO port

Uses industry-standard Session Initiation Protocol (SIP)

Clear, natural-sounding voice quality

Supports remote delivery of firmware updates

Zoom's TelePort™ feature allows one or more analog phones to place and receive calls over the Internet and also over the Public Switched Telephone Network

Supports automatic provisioning by service providers

Supports Quality of Service (QoS)

Supports STUN (Simple Traversal of UDP over NATs)

VoIP to PSTN and PSTN to VoIP call bridging

Supports advanced telephone services including CLASS features such as Call Waiting, Caller Identification, Call Transfer, Call Hold, Call Forwarding, Distinctive Ring, and Voice Message Waiting Indication

Proven compatibility with SIP-standard servers from Asterisk™ Cisco, NetCentrex™, Quintum and more.

Model 5801 with G.711, iLBC and G.729 Codecs
Model 5802 with G.711 and iLBC Codecs

The economical Zoom Model 5801 and Model 5802 Voice over IP Telephone Adapters allow standard analog telephones to make and receive calls over a broadband Internet connection. Simply plug a conventional or cordless phone into the adapter and then plug the telephone adapter into a broadband-connected router or Internet gateway. Up to five and often more attached phones can be rung simultaneously using the built-in ring generator.

The Model 5801 and Model 5802 support industry-standard Session Initiation Protocol (SIPv2) and work with a wide range of service providers and SIP-based VoIP equipment.

Both models provide one FXS and one FXO port and allow calls to be bridged between the Public Switched Telephone Network (PSTN) and Voice Over IP.

The FXO port of the adapters also include the TelePort™, an intelligent relay that allows a single phone to place and receive both VoIP calls and calls over the PSTN. PSTN fail-over allows the 5801 and 5802 to automatically route calls over the dial-up phone network when power is lost. PSTN support also allows emergency dialing using services like 911, 112, or 999 calling. PSTN to VoIP call bridging with security is provided, as well as VoIP to PSTN call bridging.

Voice over IP Service providers can deliver a rich variety of advanced telephone services through the Model 5801, or 5802 including CLASS features such as Call Waiting, Caller Identification, Call Transfer, Call Hold, Call Forwarding, Distinctive Ringing, and Voice Message Waiting Indication.

The VoIP terminal adapters can be configured remotely using a TFTP or HTTP download from the service provider and updates to the firmware can be automatically delivered. Local configuration is done with a browser-based graphical user interface.

The Model 5801 supports G.711, iLBC and G.729 voice codecs. The Model 5802 supports G.711 and iLBC.

Both units are built and supported by Zoom Technologies, a publicly-traded company (NASDAQ:ZOOM) with over 28 years of experience in telephony and data communications.

Specifications

Analog Telephone Ports

- One FXS type Loop-start interface with RJ-11
- One FXO analog interface with Teleport and RJ-11
- Up to 5 REN (Ringer Equivalence Number), will ring up to 5 typical telephones and often more
- Programmable Ring Patterns
- Call progress tones supported: Initial dial tone, Secondary dial tone, Stuttered dial tone, Message waiting dial tone, Call forward dial tone, Pre-ringback dial tone, Ring back tone, Call waiting tone, Call holding tone, Call disconnect tone, Call conference tone, Busy tone, Reorder tone (network busy/fast busy), Off hook warning.
- Power Fail Over
- Auto switch to PSTN for emergency calling using 911 and other programmed three digit codes
- VoIP to PSTN call bridging, PSTN to VoIP call bridging with ANI security

Status Indicators

- Power, LAN link, VoIP ready, VoIP call in progress, PSTN port ready, voice message waiting

Voice over IP (VoIP) Protocols

- SIPv2 - Session Initiation Protocol (RFC 3261, 3262, 3263, 3264)
- SDP - Session Description Protocol (RFC 2327)
- RTP - Real Time Protocol (RFC 1889, 1890)
- RTCP - Real-Time Control Protocol (RFC 1889)
- X-NSE - Tone Events for SIP/RTP (RFC 2833)
- AVT - Tone Events for SIP/RTP (RFC 2833)
- Power-on Auto Registration
- Re-registration with SIP Proxy Server
- SIP over UDP
- SIP authentication (HHP Digest with MD5)

Voice over IP Telephone Adapter Model 5801/5802

Specifications (continued)

Network Protocols	• IPv4 - Internet Protocol Version 4 (RFC 791) • TCP - Transmission Control Protocol (RFC 793) • UDP - User Datagram Protocol (RC 768) • ICMP - Internet Control Message Protocol. (RFC 792) • RARP - Reverse Address Resolution Protocol (RFC 903) • ARP - Address Resolution Protocol (RFC 826) • DNS - Domain Name Server • DHCP Client - Dynamic Host Control Protocol (RFC 2131) • NTP - Network Time Protocol (RFC 1305) • SNTP - Simple Network Time Protocol (RFC 2030) • STUN - Simple Traversal of UDP over NATs (RFC 3789) • HTTP - HyperText Transfer Protocol • TFTP - Trivial File Transfer Protocol (RFC 1350)
Voice Codecs	• G.711 - Pulse Code Modulation • iLBC (Internet Low Bitrate Codec) • G.729 (Model 5801 only)
Telephony	• Q.24 DTMF generation and detection • Configurable tone frequency and on/off cadence generation • Caller ID Generation and Detection (Type I and II) • 3-way conference calling with local mixing • Message waiting indicator light • G.711 Fax Pass-through • CLASS feature support • G.165, G.168 compliant line echo cancellation • Nonlinear echo cancellation • Double talk detection
Quality of Service Support	• Layer 2 Class-of-Service (CoS) Tagging (802.1P) • Layer 2 (802.1Q VLAN) • Layer 3 Type-of -Service (ToS) Tagging (RFC 791/1349) • Layer 3 DIFFServ (RFC 2475)i 0fo
Security	• Provisioning/Configuration/Authentication • Password-protected, Web based administration • ARC4 Encryption for TFTP Configuration Profiles • Authentication (Digest using MD5)
Size	• 14.6 cm X 11.2 cm X 2.8 cm (5.7 inches X 4.4 inches X 1.1inches)
Minimum Requirements	• High speed Internet connection (typically a DSL or data-over cable connection) • A router or gateway to share the broadband Internet connection • A Touchtone telephone (conventional analog phone) or a fax machine • CD ROM drive in a personal computer which supports a Web browser (Windows, Macintosh, Linux or other) and is connected to the router

Package contents:

- VoIP telephone adapter
- Power adapter
- Quick Start Guide
- CD ROM
- Ethernet cable
- Phone cord

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