

Economical solution provides Voice over the Internet using conventional telephones

Provides two FXS ports for two VoIP channels

Uses industry-standard Session Initiation Protocol (SIP)

Clear, natural-sounding voice quality

Supports remote delivery of firmware updates

Supports automatic provisioning by service providers

Supports Quality of Service (QoS)

Supports STUN (Simple Traversal of UDP over NATs)

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



Zoom Voice over IP Telephone Adapter

Model 5821F with G.711, iLBC and G.729 Codecs

The Model 5821F Voice over IP Telephone Adapter allows standard analog telephones to make and receive calls over a broadband Internet connection. The 5821F has two FXS ports to allow two VoIP channels. Simply plug one or two conventional or cordless phones into a Model 5821F and then plug the telephone adapter into a broadbandconnected router or Internet gateway. Up to five and often more attached phones can be rung simultaneously on each FXS port using the built-in ring generator.

The Models 5821F supports industry-standard Sessions Initiation Protocol (SIPv2) and work with a wide range of service providers and SIP-based VoIP equipment.

Voice over IP Service providers can deliver a rich variety of advanced telephone services through the Model 5821F including CLASS features such as Call Waiting, Caller Identification, Call Transfer, Call Hold, Call Forwarding, Distinctive Ringing, and Voice Message Waiting Indication.

The VoIP telephone adapter 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 5821F is built and supported by Zoom Technologies, a publicly traded company with over 30 years of experience in telephony and data communications.

Specifications	
Analog Telephone Ports	 Two FXS type Loop-start interface ports Up to 5 REN (Ringer Equivalence Number) for support of up to 5 and often more typ telephones for each FXS port Programmable Ring Patterns Call progress tones supported: Initial dial tone, Secondary dial tone, Stuttered dial to Message waiting dial tone, Call forward dial tone, Pre-ringback dial tone, Ring back Call waiting tone, Call holding tone, Call disconnect tone, Call conference tone, Busy tone, Reorder tone (network busy/fast busy), Off hook warning.
Status Indicators Voice over IP (VoIP) Protocols	 Power, LAN link, VoIP ready, VoIP call-in-progress, Voice message waiting 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)

Models 5821F

Voice over IP Telephone Adapters

Specifications (continued)

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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 (RFC 1350)
Voice Codecs	 G.711 - Pulse Code Modulation G.729 iLBC (Internet Low Bitrate Codec)
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 Ofo
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 1.1 inches)
Minimum Requirements Regulatory Approvals	 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 FCC Part 15B, ICES-003, IC LS-03, CE, CSA (C,US), RoHS compliant
Warranty	Two year limited warranty

Package contents:

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





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