

## AudioCodes Enabling Technology Products

### CPE VoIP ToolKit



- Provides a hardware and software reference design for up to 4 compressed VoIP channels
- Ideal VoIP solution for broadband access products - FTtx, WiMax, Cable, xDSL
- Offers a classic solution to low cost ATA manufacturers that require superior voice quality and reliability at a competitive price
- Minimizes efforts and risks to ODMs and OEMs rolling out VoIP-based Solutions

AudioCodes' **CPE VoIP Toolkit** is a combined hardware and software reference design targeting up to 4 VoIP channels for Customer Premises Equipment (CPE) applications.

Utilizing AudioCodes field-proven VolPerfect™ software, the AC48x Voice over Packet Processor (VoPP) and the VoicePacketizer™ Voice over Streaming Protocol Stack, enables this reference design to offer manufacturers of broadband access products a cost-effective, high quality and market ready solution for the rapidly growing residential VoIP market.

#### PROVIDE COST-EFFECTIVE DEPLOYMENT

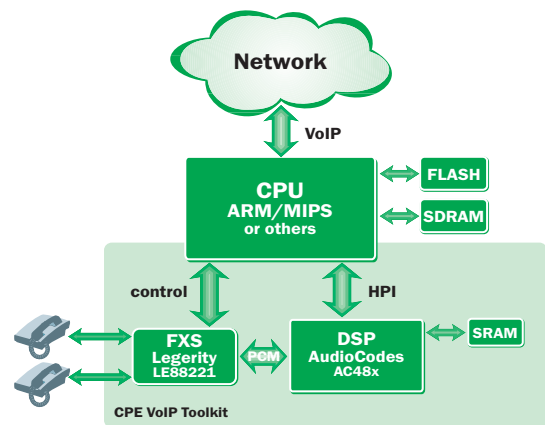
Based on AudioCodes mature AC48x VoPP family, this reference design has a cost-effective Bill of Materials (BOM) that fully addresses the needs of aggressive market cost demands. Using AudioCodes' DSP and VolPerfect™ software significantly reduces the cost per channel as when compared to alternative solutions.

#### ENABLE FLEXIBLE AND EASY INTEGRATION

This VoIP reference design was carefully developed to meet the needs of multiple VoIP gateway products and market requirements. The basic design of the AC488xx VoPP for 2 channels can easily be extended up to 4 voice channels with AC482xx or AC483xx VoPPs. The scalability and flexibility of this reference design allows customers to rapidly customize and quickly deploy a differentiated VoIP product to various markets.

#### READY TO USE VOIP APPLICATION

The VoIP reference design solution couples the hardware design with a Linux-based ATI application supporting voice protocol, call features and signaling.



AC48x CPE Toolkit – Block Diagram

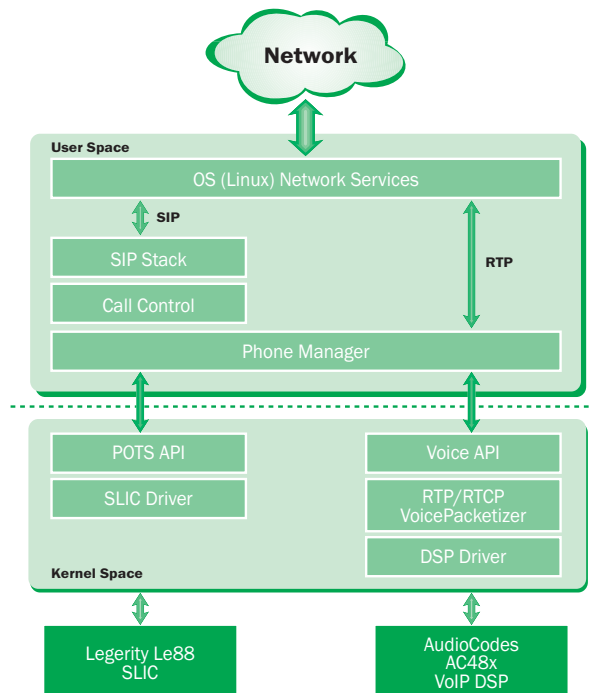
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### SPECIFICATIONS

Density	Up to 4 compressed VoIP channels
VoIP Signaling	SIP - RFC 3261
Protocols	Voice Coders - G.711, G.723.1, G.729A/B, G.726
Media Processing	Fax - T.38 Relay, Bypass Echo Cancellation - G.168-2002 compliant, up to 64 msec tail length Voice Activity Detection (VAD) Comfort Noise Generation (CNG) Packet Loss Concealment (PLC) Adaptive Jitter Buffer 300 msec
Packetization	RTP/RTCP Packetization - RFC 3550, 3551 DTMF Relay - RFC 2833
Telephony Features	3-way conferencing Call Hold Call Transfer Call Waiting
Telephony Support	FXS, Hook state detection, Ringing
Telephony Signaling	DTMF - Detection and Generation Caller ID - Telcordia/ETSI/NTT Type I/II (on hook / off hook) Programmable Call-Progress Tones
Operating System	Embedded Linux

\* Please contact AudioCodes representative for specific software availability



AC48x CPE ToolKit Software Architecture

### ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUCD), Your Gateway to VoIP, provides innovative, reliable and cost-effective Voice over Packet (VOP) technology and Voice Network products to OEMs, Network Equipment Providers, Service Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway and media processing technologies (based on VolPerfect\* - AudioCodes' underlying, best-of-breed, core media gateway architecture) and Session Border Controllers (SBCs). The company is a market leader in product development, focused on VoIP Media Gateway, Media Server and SBC technologies and network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past few years and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. The Company is a VoIP technology leader focused on quality, having recently received a number one ranking from ETSI for outstanding voice quality in its media gateways and media servers. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, enhanced voice services and video markets. AudioCodes enabling technology products include VoIP and CTI communication blades, VoIP media gateway processors and modules, and CPE devices. AudioCodes' headquarters and R&D facilities are located in Israel with an R&D extension in the U.S. Other AudioCodes' offices are located in Europe, the Far East, and Latin America.

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