

## AudioCodes Enabling Technology Products

### IPM-6310 cPCI VoIP Media Processing Blade



- Provides high-density, high-performance blade for carrier grade VoIP applications
- Enhanced IP-enabled media service features
- Embodies rich and comprehensive API (VoPLIB)
- Implements field-proven and cost-effective technology
- Enables scalable distributed architecture
- Reduces development cycle

The **IPM-6310** (IPmedia™) cPCI VoIP Media Processing blade is a high-density, high-performance VoIP media processing blade designed for enhanced voice service applications for both existing and next generation networks. Introducing a comprehensive set of advanced media processing and signaling capabilities on a single cPCI blade, the IPM-6310 is an excellent building block for media services and VoIP application developers targeting better flexibility and short time-to-market.

#### DELIVER FEATURE-RICH SOLUTIONS

A wide selection of firmware-based media processing capabilities is available with the IPM-6310 including: message record/playback, conferencing, on-board announcement storage, IVR streaming and control, voice coding and transcoding, echo cancellation, fax processing and call progress tone detection. Each channel resource on the IPM-6310 is universal and can perform media processing functions independently and simultaneously while utilizing full flexibility of endpoints.

#### COMPLY WITH INDUSTRY STANDARDS

The IPM-6310 blade complies with industry standard network control protocols including SIP, MEGACO (H.248), MGCP and AudioCodes' proprietary API - VoPLIB. This allows the implementation of a distributed media server architecture that separates call processing functions from media processing functions. The blade enables scalability, better redundancy and higher system availability.

#### PROTECT CUSTOMER INVESTMENT

The IPM-6310 is based on VolPerfect™ architecture, AudioCodes' field-proven, best-of-breed, core media gateway technology for all of its products. The blade supports AudioCodes' API (VoPLIB) which enables software download, provisioning and control. It was designed to maintain essential API backward compatibility in order to protect customers' investment in the development of products based on prior generations.

#### ENABLE FAST & EASY INTEGRATION

Enabling accelerated design cycles with high-density and reduced costs, the IPM-6310 is a foundation for scalable, reliable VoIP enabled media processing solutions. The comprehensive feature set of the IPM-6310 allows customers to quickly design a wide range of solutions combining VoIP and PSTN networks.

#### IPM-6310 FEATURES

- Up to 2016 universal media processing ports
- Comprehensive IVR control
- Real-time, multi-party conferencing with mixed IP/PSTN/H.110 endpoints
- High density Voice Record/Playback over the network
- Real time Fax over IP/T.38
- Voice transcoding between wireline and wireless networks
- VoIP packet streaming (RTP/RTCP) per RFC 3550/3551
- SIP<sup>1</sup>, MEGACO, MGCP and AudioCodes' proprietary API (VoPLIB)
- CPSB PICMG 2.16 compliant Ethernet on the backplane
- Optional STM-1/OC-3 or 3 x T3<sup>1</sup> PSTN interfaces

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## IPM-6310

### SPECIFICATIONS

Software Specifications	
Voice Messaging, Recording	Record/play using standard NFS streaming – 2016 channels <sup>1</sup> On-board announcement storage – 32 MB: 60 min of G.711 RTP forking replications for lawful intercept (CALEA)
N-way Conferencing	Supports up to 2016 ports of Mixed IP, PSTN and TDM (H.110) participants Maximum full-duplex parties per conference bridge: 64 endpoints Up to 3 simultaneous active participants or linear summation mode (all active) Supports various conference control modes
Fax Relay and Termination	Real-time fax over IP/T.38 compliant, automatic fallback to G.711 and VBD for up to SG-3 Concurrent fax sessions on all the channels Support for Fax Termination (Available with AudioCodes S/W based stack)
ASR <sup>2</sup>	Distributed Architecture – Media Stream over VoIP RTP
Voice Compression	Supports up to 2016 ports of: G.711, G.723.1, G.729A/B, G.726, G.727, GSM-FR, GSM-EFR, EVRC, NB-AMR, iLBC Wide Band coders including G.722 and AMR Additional coders supported <sup>2</sup>
Voice Processing	Voice Activity Detection (VAD) and CNG Transcoding of LBR to LBR coder supporting 1024 channels Transcoding of G.711 RTP to any LBR coder supporting 2048 channels <sup>1</sup>
Echo Cancellation	G.168 with tail of 32 msec, 64 msec and 128 msec
Gain Control	Automatic (AGC) or Programmable
In-band/Out-band Signaling	Packet side or PSTN side, DTMF and tone detection and generation, RFC 2833
Control Protocol	AudioCodes' proprietary API - VoPLIB, SIP, MEGACO (H.248), MGCP (RFC 3435, RFC 3660)
Management	<ul style="list-style-type: none"><li>• SNMP V2c: Standard MIB-2: system, interfaces, if-MIB, entity-MIB, RTP-MIB, DS1-MIB, snmpV2-MIB and AudioCodes' proprietary MIB</li><li>• On-board embedded secure Web Server</li><li>• Syslog</li></ul>
Operating System	<ul style="list-style-type: none"><li>• Windows™ 2000, XP, 2003</li><li>• Linux™<sup>3</sup> RH8, RH9, Debian, Enterprise</li><li>• Solaris™<sup>3</sup> 8,9 on Intel™/Sparc™ 32/64</li></ul>
Signaling	
PSTN	<b>CAS</b> T1 robbed bit, MFC/R2 numerous country variants <b>CCS</b> ISDN PRI: numerous country variants including ETSI EURO ISDN, ANSI NI2, DMS, 5ESS, Japan INS1500 <b>SS7</b> MTP2 and MTP3 link termination
SIGTRAN	M2UA, M3UA, IUA and DUA over SCTP per RFC 2960
Hardware Specifications	
Form Factor	6U PICMG 2.16 compliant, single cPCI slot, full Hot Swap
Interfaces	Dual GBEth, TDM: H.110, PSTN: OC-3/STM-1 APS protected or 3 x T3 <sup>1</sup>
Power	40-85 W <sup>2</sup>

### APPLICATIONS

- Contact Centers
- Conference Servers
- IVR Servers
- Unified Communications/Messaging
- Voice Portals
- Voice Recording
- Transcoding and Fixed-Mobile Convergence
- Lawful Intercept

### ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC), 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 VoIPerfect™ – 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.

### International Headquarters

1 Hayarden Street, Airport City  
Lod, Israel 70151  
Tel: +972-3-976-4000  
Fax: +972-3-976-4040

### AudioCodes USA Inc.

27 World's Fair Drive  
Somerset, NJ 08873  
Tel: +1-732-469-0880  
Fax: +1-732-469-2298

Contact us: [www.audiocodes.com/info](http://www.audiocodes.com/info)  
Website: [www.audiocodes.com](http://www.audiocodes.com)

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What's Inside Matters™

<sup>1</sup> Future Release

<sup>2</sup> Consult AudioCodes for specific configuration

<sup>3</sup> See release note for specific OS releases supported