# IPmedia<sup>™</sup> 5000 Media Server Platform



- Meet the need for enhanced voice services in VoIP/VoATM wireline, cable & wireless markets with a right-sized and cost-effective media server
- Enable enhanced voice services such as Network Announcements, Conferencing, Interactive Voice Response (IVR), Transcoding and Messaging
- Deliver a cost-optimized solution for high capacity deployments that demand full-featured server functionality

The IPmedia™ 5000 Media Server enables Network Equipment Providers (NEPs), Application Developers and System Integrators (SIs) to offer Service Providers revenue-generating enhanced voice services over a high-density and robust solution. The IPmedia 5000 media server joins AudioCodes family of Media Server voice network products for enhanced voice services (including the IPmedia 2000 and the IPmedia 3000). Building on AudioCodes' experience in the VoP market, the IPmedia 5000 supports a rich variety of VoIP vocoders, media processing capabilities and standards-compliant signaling and call control. The IPmedia 5000 is based on VoIPerfect™ architecture, AudioCodes' core media gateway technology.

### **DELIVER ENHANCED VOICE SERVICES**

The IPmedia 5000 enables NEPs to significantly enhance their network solutions. Media processing technologies, such as voice record/playback, announcements, echo cancellation, voice mixing, DTMF (detection/generation) and transcoding ensure delivery of advanced services beyond the scope of basic dial tone service. These include conferencing, network announcements, voice mail, auto-attendant, and Interactive Voice Response (IVR). AudioCodes application partners provide a variety of applications jointly with the AudioCodes IPmedia™ product line to benefit service providers.

### ROBUST BUILDING BLOCK FOR CONVERGED NETWORKS

The IPmedia 5000 is designed and optimized to serve as a Multimedia Resource Function Processor (MRFP) in Wireline and 3G Wireless networks that have adopted the IP Multimedia Subsystem (IMS) architecture. As part of an IMS architecture, the IPmedia 5000 will provide a robust, scalable MRFP to provide application developers and service providers with the infrastructure to offer a wide range of applications and services.

### **DEPLOY A RIGHT-SIZED, RELIABLE SOLUTION**

The IPmedia 5000 matches the density requirements for high-density applications and locations in the network while meeting the requirements for a market-ready full-featured media processing server. The IPmedia 5000 is specifically fine-tuned to meet demand, with a density scale from 1000 to 8000 ports that provides high capacity for the entire gamut of interactive enhanced voice services. The IPmedia 5000 provides a cost-effective N+1 in-the-chassis redundancy scheme on the media server blades which enables a highly available service offering at all times.

### LEVERAGE LEGACY INVESTMENTS

The IPmedia 5000 consists of PSTN, VoIP and VoATM interfaces, allowing NEPs and application partners to deliver enhanced voice services on legacy PSTN networks as well as on new packet-based networks. This enables easy migration to new deployments of packet infrastructure.

### IPMEDIA™ 5000 FEATURES

- Extensive media processing
- Flexible deployment options
- Highly scale and dense product
- Small footprint
- Designed for NEBS Level 3
- Redundant Common equipment (controller, power, ethernet switch)
- Optional N+1 protection of Media Server Boards
- VOIP, VoATM and PSTN support
- Optimal, cost-effective channel density
- Open architecture



### AudioCodes Voice Network Products for Enhanced Voice Services

## IPmedia<sup>™</sup> 5000

### **SPECIFICATIONS**

Capacity	Up to 8000 channels
	Independent dynamic vocoder/media processing function selection – per chann
Media Processing	The state of the s
	Voice Activity Detection (VAD)
	Comfort noise generation • DTMF detection and generation in-band/out-band
	(RFC 2833), T.38 compliant (real-time fax)
	• Echo Cancellation: G.168 30, 64, 128 (with reduced capacity) msec
Vaina Cadava	Gain Control: Automatic (AGC) or Programmable
Voice Coders	G.711 PCM 64 kbps (μ-law/A-law) G.726/G.727 ADPCM/E-ADPCM (16 to 40 kbp
	G.729AB CS-ACELP, 8.0 kbps G.723.1 MP-MLQ, 6.3 kbps ACELP, 5.3 kbp UMTS/GSM: GSM-FR, GSM-EFR, AMR (8 rates)
	CDMA: EVRC (with reduced capacity)
Conferencing	Maximum half-duplex parties per conference bridge: 2016
	Maximum full-duplex parties per conference bridge: 2010  Maximum full-duplex parties per conference bridge: 64 participants
	Conferencing Control: moderator mode, passive listener, mute, drop, coaching
Enhanced Services	volume adjustment (up/down)  Advanced Audio Server Package: Play, Play-Collect, Play-Record
	23 languages supported (including English, French, German, Italian,
	2 variants of Dutch, 4 Spanish variants, Japanese, and many more)
	HTTP protocol for Media streaming; Local announcement storage
	ASR <sup>1</sup> , TTS <sup>1</sup>
	CALEA support
	Trunk testing per GR-822, tests: TL 100, 102 and 105,
	Multiple Vocoder Transcoding
Control and Management	Marapic vocoder Hariscouring
Control Protocols	H.248, H.248.9, MGCP, PacketCable BAU package, SIP, NetAnn and MSCML dra
Transport	The regions of the control of the pastinger, and the control of th
IP Transport	IETF RFC 1889, RFC 1890 RTP/RTCP Transport, TCP, UDP
ATM Transport	Bearer transport over AAL1, AAL2. RFC 3108 - Use SDP for ATM Bearer Connecti
•	(Not all Media Server capabilities are supported with ATM)
Maintenance	
Management	Element Management System, SNMP v2
Maintainability	All shelf modules are hot swappable, including boards, power supplies, fans
Redundancy Scheme	CPUs, Ethernet switches, disk drives: Active/Standby
	Power supplies, fans: Load Shared Media Server Boards: N+1
Interfaces	
Ethernet	Dual redundant 10/100/1000 Base-T Ethernet ports
ATM	4x(1+1) redundant (APS) 155 Mbs fiber optic STM1/OC-3c interfaces
PSTN	4x(1+1) redundant (APS) 155 Mbs fiber optic STM1/OC-3c interfaces
Hardware	
Enclosure	10-slot, 5U cPCl chassis
Hot Swap	Full cPCI hot swap supported for media processing board
Dimensions (HxWxD)	222 mm x 483 mm x 311 mm (8.7 in. x 19 in. x 12.3 in.)
Weight	Approx. 27 lbs. (12.3 kgs.), unloaded; Approx. 50 lbs. (22.6 kgs.), fully loaded
Mounting	Per EIA Standard RS-310-C in 19-inch rack
Power	-48 V DC Dual Feed with up to 3 DC Power modules OR
	100 - 240 V AC with up to 3 AC Power modules
Cooling	Replaceable fan tray & filter
Regulatory Environment	
Regulatory Environment Telecommunication Standards	The first state of the state of
Regulatory Environment	UL60950, FCC part 15 class A
Regulatory Environment Telecommunication Standards Safety and EMC Standards	UL60950, FCC part 15 class A CE mark (EN55022 Class B, EN60950, EN55024, EN300 386)
Regulatory Environment Telecommunication Standards	UL60950, FCC part 15 class A

- 1 Planned via integration with partner technologies
- 2 Designed to meet formal approval pending

### **APPLICATIONS**

- Basic services including conferencing and network announcements for wireless networks Media Resource Function, VoIP consumer and business IP Centrex services, and packet toll offices
- Enhanced services including Voice Mail, Messaging, Calling Cards, 1-800, Voice VPN, Conference Bridge, Color Ring Back and Dial Tones and Interactive Voice Response in voice networks
- Speech-enabled services for wireless networks
- Trans-coding server
- CALEA server

### **ABOUT AUDIOCODES**

AudioCodes Ltd. (NASDAQ: AUDC) enables the new voice infrastructure by providing innovative, reliable and cost-effective Voice over Packet technology and Voice Network products to OEMs, network equipment providers and system integrators. AudioCodes provides its customers and partners with a diverse range of flexible, comprehensive media gateway and media processing technologies, based on VolPerfect™ - AudioCodes' underlying, best-of-breed, core media gateway architecture. The company is a market leader in voice compression technology and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless. broadband access, and enhanced voice services markets. AudioCodes enabling technology products include VoIP and CTI communication boards, 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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Ref# LTRT-00306 08/05 V.1

