IPmedia™ 2000 Media Server Platform

The IPmedia™ 2000 is the cost-effective, entry-level member in the AudioCodes family of market-ready, standards compliant, media server systems. Incorporating AudioCodes' leading Voice over Packet technology and based on field-proven media technology, the IPmedia 2000 enables Network Equipment Providers (NEPs) rapid time-to-market and reliable cost-effective deployments of enhanced voice services in VoIP telephony networks. The IPmedia 2000 is based on VoIPerfect™ architecture, AudioCodes' underlying, best-of-breed, core media gateway technology for all of its products.

DELIVER ENHANCED VOICE SERVICES

The IPmedia 2000 enables NEPs to significantly enhance their network solutions. Media processing technologies, such as voice record/playback, announcements, voice mixing and DTMF (detection/generation, trans-coding) ensure delivery of advanced services beyond the scope of basic dial tone service. These include conferencing, network announcements, voice mail, auto-attendant, Interactive Voice Response (IVR), and others.

DEPLOY BEST-OF-BREED RIGHT-SIZED SYSTEMS

The IPmedia 2000 matches the density requirements for smaller locations in the network while meeting the requirements for a market-ready full-featured media-processing server. The IPmedia 2000 is specifically fine-tuned to meet demand, with a dense (up to 480 ports) solution that provides high capacity for the entire gamut of interactive voice services.

IMPROVE INFRASTRUCTURE INTEROPERABILITY

Application partners can port and integrate applications directly on the open-platform IPmedia 2000, thus eliminating the need for additional application servers. This alleviates traditionally slow interoperability processes and delivers superior manageability, a smaller footprint and trouble-free maintenance.

LEVERAGE LEGACY INVESTMENTS

The IPmedia 2000 consists of PSTN and VoIP 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.

BENEFIT FROM EXTENSIVE EXPERIENCE

AudioCodes is one of the world's leading providers of new voice infrastructure network technologies. AudioCodes' commitment to innovation yields consistently high-quality voice processing products that meet our customers' demand for higher levels of integration.

The IPmedia 2000 is part of AudioCodes' complete family of Voice Network Products for new voice infrastructure carrier networks.

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

IPMEDIA 2000 FEATURES

- Extensive media processing functions
- Packet telephony standard compliant
- UMTS & CDMA compliant
- PSTN protocol termination support
- Expansion slot for application hosting
- Flexible deployment options
- NEBS Level 3 certified*
- Multiple density options
- Small footprint
- Open architecture

Applies to certain configurations

AudioCodes

IPmedia™ 2000

SPECIFICATIONS

Capacity	
	Up to 480[1] Media Processing ports
	All densities apply to either VoIP or PSTN ports

Media Processing	
Audio Processing	Call progress tones
	Voice Activity Detection (VAD)
	Comfort noise generation
	DTMF detection and generation in-band/out-band (RFC 2833)
	T.38 compliant (real-time fax)
	Playback Acceleration/deceleration
	Echo Cancellation: G.168 30, 64, 128[2] msec
	Gain Control: Automatic (AGC) or Programmable
Voice Coders	G.723.1, G.729 AB, G.711, G.726/G.727, GSM 6.10 at 13 kbps
	Cellular Coder: UMTS - AMR all rates; CDMA[2] - EVRC, QCELP8, QCELP13
Conferencing	Maximum number of conferencing ports: 240
	Maximum half-duplex parties per conference bridge: 120
	Maximum full-duplex parties per conference bridge: 64 participants
	Conferencing Control: moderator mode, passive listener, mute, drop
Enhanced Services	Announcement playback
	Voice recording/playback
	Local announcement storage of 3.5 hours
	ASR[3], TTS[3]
	CALEA support
	Trans-coding LBR voice to G.711 voice streams

Control and Management	
Control Protocols	MGCP, H.248, SIP, VXML[4]
	AudioCodes' extensive TPNCP API over IP
	C++ API libraries and SDK
API Supported OS	• Windows™ NT, 2000, XP • Linux™ • Solaris™ on Sparc™/Intel™
Management	SNMP v2
	User-friendly GUI via Embedded Web Server
	Remote configuration and software download via TFTP & Boot
	Centralized Element Management System[4]

Signaling and Transport	
PSTN Protocols	CAS T1 robbed bit, E1 CAS/MFC-R2, ISDN PRI
IP Transport	IETF RFC 3550, RFC 3551 RTP/RTCP Transport, TCP, UDP

Interfaces	
Ethernet	Dual redundant 10/100 Base T Ethernet ports via 2 RJ-45 connectors
Telephony	Up to 8 trunks using RJ-48 connectors
	Up to 16 trunks using dual 50-pin telco connectors

Hardware	
Physical	1U high, 19-inch wide rack mount
Enclosure	2-slot cPCI chassis
Mechanical	PICMG 2.0 R2.1 cPCI
Hot Swap	Full cPCI hot swap supported for media processing board
Power Consumption	Up to 41 Watts typical at full capacity
Power Supply	Single universal 90-260 V AC or dual-redundant AC or single -48 V DC

Regulatory Environment	
Telecommunication Standards	FCC part 68, TBR4 and TBR13
Safety and EMC Standards	UL60950, FCC part 15 class B
	CE mark (EN55022 Class B, EN60950, EN55024, EN300 386)
Environmental	NEBS Level 3: GR-63-Core (DC-powered model), GR-1089-Core, Type 1&3, ETS300 019

1 SIP option supports up to 240 ports
2 May affect density
3 Integrated Partner technologies
4 Planned

APPLICATIONS

- **Basic services** including instant conferencing and network announcements for wireless networks, media resource functions, VoIP access lines and packet toll offices
- **Enhanced services** including Voice Mail, Messaging and Interactive Voice Response in deployments such as: Voice VPN and IP Centrex
- **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 VoIPerfect™

– 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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