



IPmedia™ 2000 Media Server Platform



- 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

The IPmedia™ 2000 is the cost-effective, entry-level member in the AudioCodes family of market-ready, standards compliant, media server systems. Intelligently packaged in a 1U chassis especially designed for small-scale deployments and smaller locations in the packet network, the IPmedia 2000 is the right-sized solution for small-scale needs. Incorporating AudioCodes' leading Voice over Packet technology and based on field-proven media technology, the IPmedia 2000 enables Network Equipment Providers (NEP) rapid time-to-market and reliable cost-effective deployments of enhanced voice services in VoIP telephony networks.

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 480-port 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 VoP system solutions for new voice infrastructure carrier networks.

IPMEDIA 2000 FEATURES

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



AudioCoded™ Systems for Enhanced Voice Services

IPmedia™ 2000

SPECIFICATIONS

Capacity	
	Up to 480 Media Processing ports All densities apply to either PSTN or VoIP 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) T.37 fax store and forward Playback Acceleration/deceleration Echo Cancellation: G.168 30, 64, 128 ¹ msec Gain Control: Automatic (AGC) or Programmable
Voice Coders	G.723.1, G.729A, G.711, G.726/G.727, GSM 6.10 at 13 kbps Cellular Coder: UMTS - AMR all rates; CDMA ¹ - 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 ² 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	SIP, MGCP, H.248, VXML ⁴ AudioCodes' extensive TPNCIP API over IP C++ API libraries and SDK
API Supported OS	Sparc Solaris, Intel Solaris, Linux, Windows NT, Windows 2000
Management	SNMP v2 Web-based element management 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 1889, RFC 1890 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 of 400 ports
Power Supply	110/220 VAC nominal (optional: -48V DC nominal)
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, GR-1089-Core, Type 1&3, ETS300 019

APPLICATIONS

- **Basic services** including instant conferencing and network announcements for VoIP local access deployments such as residential cable networks
- **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: AUCD) designs, develops and markets Voice over Packet media gateway technologies and systems for converged networks. The company is a market leader in voice compression technology and the key originator of the ITU G.723.1 standard for the emerging Voice over IP market. AudioCodes' product line includes media gateway system solutions for packet networks in the wireline, wireless, broadband access and media server markets; as well as enabling technology products such as VoIP communication boards, VoIP media gateway modules and CPE devices.

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1. May affect density
2. Planned. Currently 16 participants supported
3. Integrated Partner technologies
4. Planned


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