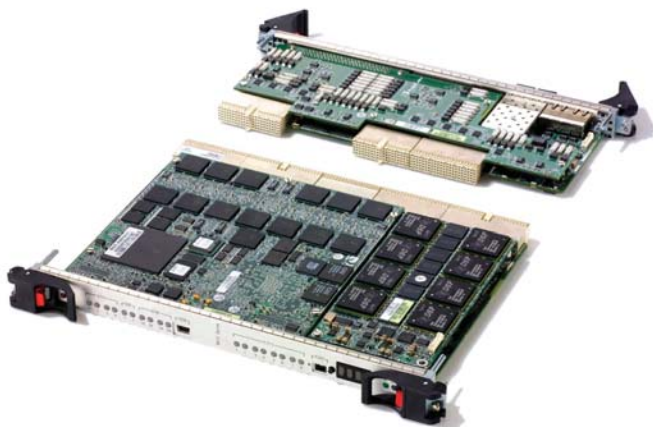


## IPM-8410 E1/T1 Multimedia over IP cPCI Media Processing Blade



- **Converged Voice and Video on a single IMS compliant carrier-grade cPCI blade**
- **Acts as MRFP (H.248) or MRF (SIP) network element blade**
- **Enables enhanced voice and video multimedia services on next generation converged packet-based networks such as: 3G and 4G mobile networks, PacketCable and Triple/Quadrupled play, IPTV and fixed networks**
- **Delivers a cost-effective, right sized solution for high capacity deployments that demand full featured server functionality**
- **Supports field-proven AudioCodes PSTN and IP interfaces**
- **Enables scalable distributed architecture**

The **IPM-8410 (IPmedia™)** blade is a complete Voice and Video over IP media processing solution, providing high density and high performance IP and PSTN capabilities on a single Compact PCI blade. Based on AudioCodes' best of breed VoIP infrastructure and its extensive experience in this field, the IPM-8410 blade utilizes well-known IP Network advantages, enabling powerful and flexible distributed system architecture for enhanced media service applications. The IPM-8410 is a hot-swappable blade designed for carrier grade applications, and compliant with telecom and safety regulations.

### **CONVERGING VOICE, VIDEO, FAX AND MODEM**

The IPM-8410 is a high-density blade that enables Voice, Video, Fax and Modem on a single blade, significantly reducing the third party hardware footprint inside the customers' system. Additionally, by utilizing the blades' scalability feature, users have the opportunity to begin development by using only partial scale density and features.

### **DELIVER FEATURE-RICH SOLUTIONS**

A wide selection of voice and video processing capabilities which include Conferencing, Transcoding, Advanced IVR functionalities and more are available on the IPM-8410 blade. The blade supports many industry-standard voice coders for wireline, wireless, cable and cellular networks, as well as a comprehensive suite of media processing features, such as G.168-2004 compliant echo cancellation, T.38 real-time Fax over IP, and a wide selection of Inband and Out-of-band tone detection and generation.

### **COMPLY WITH INDUSTRY STANDARD**

The IPM-8410 complies with industry standard network protocols including SIP and MEGACO (H.248) for the IP signaling protocols as well as PSTN signaling protocols such as ISDN PRI, SigTran (M2UA, M3UA, IUA) and CAS. AudioCodes SIP protocol supports the latest RFCs and drafts including the well-developed and mature MSCML protocol. AudioCodes maintains continuous interoperability tests along the control protocol spectrum and complies with industry leading vendors.

### **ADVANCED SECURITY SUITE**

With the advent of VoIP, security is becoming more and more important. The IPM-8410 addresses customer's security concerns, offering advanced security capabilities which include SRTP, TLS, IPSec and SSL.

# AudioCodes Enabling Technology Products

## IPM-8410

### SPECIFICATIONS

<b>Capacity</b>	
	Up to 2,016 Audio channels, 200 Video channels and 42 E1/T1 spans
<b>Media Processing Modules</b>	
DTMF and Detectors	Call progress tones Voice Activity Detection (VAD) DTMF detection and generation in-band/out-band (RFC 2833)
Announcements	Language Support Variables Support (i.e. Dates, Currency, etc.)
Playback and Record	Audio and Video Play/Record Audio Files: .WAV, .AU, .RAW Video Files: .MP4, .3GP
Transcoding	Audio and Video Transcoding (any Coder to any Coder) Video Transrating (adjusting bit and frame rates) Video Resizing (adjusting resolutions)
Audio Conferencing	Up to 256 active speakers and up to 2000 listeners per conference mix Modes: Moderator, Passive, Mute, Drop, Coaching Volume and AGC Control per participant
Video Conferencing	Switch Mode (VAD/Timer), Mixed Mode (up to 3x3) and Hybrid Text and Graphic Overlay <sup>1</sup>
Speech	ASR <sup>2</sup> , TTS <sup>2</sup> MRCP
General	CALEA support Trunk testing per GR-822, tests: TL 100, 102 and 105
<b>Media Formats</b>	
IP	RTP, RTCP
Voice	Comfort Noise Generation, Echo Cancellation up to 128ms, AGC
Fax	T.38
Audio Coders	G.711 PCM 64 Kbps ( $\mu$ -law/A-law) G.726/G.727 ADPCM/E-ADPCM (16 to 40 Kbps) G.729AB CS-ACELP, 8.0 Kbps G.723.1 MP-MLQ, 6.3 Kbps ACELP, 5.3 Kbps Multiple UMTS, GSM, CDMA vocoders
Video Coders	MPEG4, H.263, H.264 CIF, QCIF Up to 384 Kbps Up to 30 fps
<b>Control and Management</b>	
Control Protocols	H.248, MGCP, PacketCable Packages, SIP, MSCML, NETANN and VoiceXML
Management	SNMP v3, Embedded Web Server, Centralized Element Management System
<b>Interfaces</b>	
Ethernet	Dual redundant 100/1000 Base-T Ethernet ports via 2 x RJ-45 connectors
PSTN	42 E1/T1 spans
<b>Hardware</b>	
Form factor	6U cPCI blade
Physical Interfaces	PSTN – E1/T1 – 42 trunks on RTM SCSI connector Ethernet – 2 GBE I/F on RTM (copper on RJ-45)
Power	10A at 3.3V; 11A at 5V; 0.7A at 12V

<sup>1</sup> Roadmap  
<sup>2</sup> Via integration with Partner technologies

### APPLICATIONS

- Audio/Video Transcoding Applications
- Audio/Video Conferencing Servers
- IVR-Interactive Voice Response Servers
- CALEA (Packet tandem)
- Live Video Streaming

### ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC) provides innovative, reliable and cost-effective Voice over IP (VoIP) technology, Voice Network Products, and Value Added Applications to Service Providers, Enterprises, OEMs, Network Equipment Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway, and media processing enabling technologies based on VolPerfect™ – AudioCodes' underlying, best-of-breed, core media architecture. The company is a market leader in VoIP equipment, focused on VoIP Media Gateway, Media Server, Session Border Controllers (SBC), Security Gateways and Value Added Application network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past ten years and is a key player in the emerging best-of-breed, IMS based, VoIP market. The Company is a VoIP technology leader focused on quality and interoperability, with a proven track record in product and network interoperability with industry leaders in the Service Provider and Enterprise space. AudioCodes Voice Network Products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, cable, enhanced voice services, video, and Enterprise IP Telephony markets. AudioCodes' headquarters are located in Israel with R&D in the U.S. Other AudioCodes' offices are located in Europe, India, the Far East, and Latin America.

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