

IPM-260 4 E1/T1 PCI VoIP Media Processing Board



- IP-enabled, cost-effective technology
- Field-proven PSTN interface board
- Low to high channel density
- Independent call-by-call basis LBR ports
- All-in-one integrated board
- Shorter development cycle

The **IPM-260** is a complete VoIP media processing solution providing IP and PSTN interfaces to build next generation applications for both today's and tomorrow's networks. By combining these capabilities on a single board, the IPM-260 can eliminate a number of separate special-function boards, reducing inventory, increasing over-all system density, reduce cost and improve time-to-market.

DELIVER FEATURE-RICH SOLUTION

A broad selection of firmware based media processing capabilities is available with the IPM-260 including: message record/playback, conferencing, voice coding, echo cancellation, fax processing and call progress tones detection. Each channel resource on the IPM-260 is universal and can perform media processing functions while utilizing full flexibility in endpoints.

PROTECT CUSTOMER INVESTMENT

The IPM-260 is a member of AudioCodes' 4th generation of the widely deployed TrunkPack® Media Gateway on a blade family. Like the other members of the TrunkPack® family the IPM-260 supports AudioCodes API, which enables software download, provisioning and control. Maintaining essential API backward compatibility of future releases in order to protect customers' investment, is an important feature of AudioCodes' software update/upgrade program.

ENABLE FAST & EASY INTEGRATION

Enabling accelerated design cycles with high density and reduced costs, the IPM-260 is an ideal building block for scalable, reliable VoIP enabled media processing solutions. With the IPM-260's comprehensive feature set, customers can quickly design a wide range of solutions combining PSTN and VoIP networks.

IPM-260 FEATURES

- 120 universal ports supporting voice, fax and data
- Various voice compression includes G.711, G.723.1, G.729A
- Voice Record/Playback
- Fax termination/generation (T.37)
- Real-time, multi-party conferencing
- Interchangeable RTP or PSTN or TDM endpoints
- Comprehensive IVR control
- VoIP packet streaming (RTP/RTCP) per RFC 1889/1890
- MGCP, MEGACO and AudioCodes' proprietary TPNCP
- MVIP, SCbus and H.100 CT bus interface support
- Automatic Speech Recognition (ASR) †
- Text To Speech (TTS) †

AudioCoded™ Enabling Technology Products

IPM-260

SPECIFICATIONS

Software Specifications

Configuration	30, 60, 120 universal ports
Voice Messaging, Recording	Host-based record/play, WAV format (G.711, MS-GSM) Playback speed control with pitch correction Time Slot summation - Record RX+TX of the call On-board announcement storage - 10 Mb Recorded prompts - 20 minutes of G.711, 200 minutes of G.723
Conferencing	Supports up to 120 ports of mixed IP, PSTN and TDM participants Maximum simultaneous 3-way conferences per board: 40 Maximum full-duplex parties per conference bridge: 64 endpoints ² Supports various conference control modes
Fax Messaging	Termination/Generation • Supports up to 96 ports - PCI bus or packet streaming based • T.37 store and forward
Fax Relay	Real-time fax over IP/T.38 compliant, automatic fallback to G.711
ASR - 3rd party	Host-based Architecture - Media Stream over PCI
Recognition Engines	Distributed Architecture - Media Stream over VoIP RTP
Voice Processing	G.711, G.723.1, G.729A, G.726/G.727, NetCoder® • Additional coders supported - contact AudioCodes for further information Voice Activity Detection (VAD) and CNG Echo Cancellation: G.168 with tail of 30, 64 and 128 msec ³ Trans-coding of G.711 RTP to any Low Bit Rate Coder RTP stream 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	AudioCodes' proprietary TPNC, MGCP (RFC 2705), MEGACO (H.248), SIP
Management Interfaces	SNMP V2: Standard MIB-2, RTP MIB, Trunk MIB, AudioCodes' proprietary MIB Embedded Web Server
Operating System	• Windows NT, 2000, XP • Linux • Solaris on Intel/Sparc

Signaling

PSTN	CAS T1 robbed bit, MFC/R2 numerous country variants CCS ISDN PRI: numerous country variants including ETSI EURO ISDN, ANSI N12, DMS, 5ESS, Japan INS1500
SIGTRAN	IUA over SCTP per RFC 3057/2960 SS7 MTP2 link termination M2UA and M3UA over SCTP

Hardware Specifications

Ethernet	10/100 Base-T
Physical Interfaces	Form factor - Full length PCI board TDM Interfaces - MVIP, SCbus, H.100 Telephony - 120 Ohm - RJ48C connectors Ethernet - RJ-45
Power	3.6A at 5 V with quad E1/T1 interface

APPLICATIONS

- Call Centers
- Conference Servers
- IVR Servers
- Unified Communications/Messaging
- Voice Portals
- CTI Applications
- Voice Recording

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 enabling technology products such as Voice over Packet chip processors, VoIP communication boards, VoIP media gateway modules and CPE devices. In addition, AudioCodes provides OEMs with media gateway system solutions for packet networks in the wireline, wireless, broadband access and media server markets.

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1 Integrated Partner Technologies
2 Available in Q1/03
3 Future release, may affect density