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AudioCoded™ TP-200

PCI VoIP Communication Board



Features

- Voice over IP Gateways
- Carrier Grade Platforms
- IP enabled Call Centers
- 60 voice/fax/data ports
- VoIP packet streaming and RTP/RTCP for IP Telephony
- On-board 10Base-T NIC
- MVIP, SCBUS or on-board E1/T1 interfaces
- Single slot plug and play PCI board
- Low power consumption - 10 Watts

Description

The *AudioCoded TP-200* VoIP Communication Board provides VoIP packet streaming for 60 ports in a single PCI slot. Standard TDM bus interfaces, such as MVIP or SCSPA are available for integration with other CTI Products. An on-board NIC interfaces the IP network based on a standard RTP/RTCP media streaming protocol. An optional dual E1/T1 interface can be used to connect to the PSTN, with on-board signaling support.

Twelve *AudioCoded* Voice over Packet Processors perform all voice band functions for 5 ports each. The VoIP DSP features include G.723.1, G.729A, proprietary NetCoder™ voice compression, and G.168 compliant echo cancellation. The board supports G3 fax relay, silence suppression, DTMF detection and VoIP IA 1.0 relay. The VoIP DSP also performs lost packet interpolation to enhance voice quality.

A dedicated communication processor implements the RTP/RTCP packet streaming, offloading the packets directly to and from the on-board NIC. This feature enhances the scalability of the solution by not passing the packet load through the host processor. A sophisticated dynamic jitter buffer is being managed by the communication processor to protect against the effects of network delay jitter. This architecture leaves the host processor free to perform call control protocols such as H.323 or MGCP, and application management.

An optional dual E1/T1 interface daughter-board provides *TP-200* users with yet a higher level of integration, saving the additional slots of separate telephony interface cards, and reducing the per channel costs. On-board software is available to handle E1/T1 signaling. The board has been approved for ETSI CTR4, supporting European ISDN on the E1 span, and other approvals are pending.

The *TP-200* is an ideal high-density, integrated, cost-effective solution for transporting voice and fax traffic over IP packet networks. Software support for the board is provided with the VoIP Windows-NT library, which supports the full range of *AudioCoded* VoIP Communication Boards. AudioCodes is committed to protect its' customers integration investment as the *AudioCoded* VoIP Communication Board series evolves forward.



AudioCoded™ TP-200

PCI VoIP Communication Board

Selected specifications

Capacity	60 independent digital voice, fax and data ports	
Voice compression	G.723.1 MP-MLQ™ @ 6.3Kbps / ACELP @ 5.3Kbps G.729A CS-ACELP @ 8Kbps G.711 PCM @ 64Kbps u-law/A-law G.726/G.727 16 - 40 Kbps ADPCM and E-ADPCM NetCoder™ @ 4.8-9.6Kbps, 800 bps increment	
Silence suppression	G.729 Annex B G.723.1 Annex A NetCoder™ PCM and ADPCM - Proprietary VAD and CNG	
Echo cancellation	G.168, 25mS	
Gain control	Programmable	
Fax relay	Group 3 fax relay up to 14400 with auto fallback	
VoIP IA compliance	DTMF: mute, transfer in coder or in RTP payload RTP/RTCP per RFC 1889/1890	
In-band signaling	DTMF (TIA 464A) MFR1-MFR2, MFC, AC15, SS4, SS5 Call progress tones generation and detection	
E1/T1 interface (optional)	Quantity	1 or 2
	Connector	RJ45
	T1 CAS	E&M, Loop Start, Ground Start
Compliance	Europe	European ISDN PRI, CTR4 compliant CTR4, CTR12, CTR13 CE Mark (EN55022, EN60950, EN50082-1)
	North America	FCC Part 15, UL1950, FCC Part 68
	Canada	CSA 22.2, CS-03
Packet interface	On-board NIC or PCI Selectable per port	
TDM interfaces	SCSA bus, 1024 time-slots @ 4.096 Mhz MVIP bus, 512 time-slots @ 2.048 Mhz	
Ethernet	10Base-T, RJ45 (used by card for RTP/RTCP) Optional 100Base-T replaces basic 10Base-T	
Control processor	Motorola PowerQUICC MPC860	
Core DSP	AudioCodes AC48105A-C VoIP DSP	
Maximum power	1.7A @ 5V without E1/T1 2A @ 5V with dual E1/T1	
Physical	Full length 32bit PCI, Rev 2.1, slave, 33 MHz	
Operating system	Windows NT 4.0, Win-NT library, Linux, Solaris/INTEL	

All specifications are subject to change without notice



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