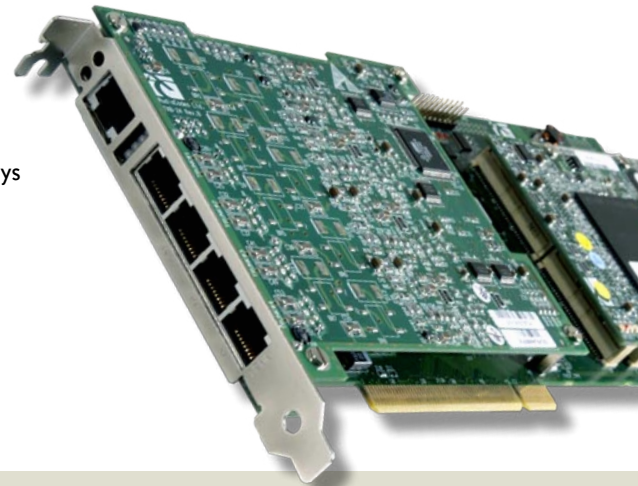# TP-260

E1/T1 VoIP COMMUNICATION GATEWAY BOARD

Features

· Stand-alone SIP media gateway

· Low to high channel density (1, 2, 4, 8)

· Concurrent toll quality voice and fax support

· Wide range of PSTN signaling protocols

· Fast time-to-market

· Flexible and easy migration to VoIP networks

· Up to 256 independent voice/fax/data ports

· VoIP packet streaming (RTP/RTCP)

· Standard control: MGCP (RFC 2705), MEGACO (H.248)

· Real-time fax over IP/T.38

· On-board announcement memory

· Tone detection and generation (MF, DTMF, RFC 2833)

· PSTN Signaling: CAS, ISDN PRI, and SS7

· SIGTRAN IUA, M2UA, M3UA over SCTP

· Media Gateway on a blade mode

· MVIP SCbus and H.100 TDM interfaces

· Management Interfaces: SNMP, Web server

· On-board 10/100 Base-T Network interface

· Optional universal PCI version

The TP-260 PCI VoIP communication gateway board, based on AudioCodes' TPM-1100 PMC Modules, is an ideal solution for trunking gateways to the PSTN and integrated gateways for IP-PBXs and all-in-one communication servers. The TP-260 provides 256 ports for voice, fax or data implementing VoIP media gateway applications.

Deliver Feature-Rich Solutions

The TP-260 supports a broad selection of voice processing related algorithms, including G.711, G.723.1 and G.729A Vocoders, G.168-compliant echo cancellation, T.38 Real-time Fax over IP, as well as a wide selection of In-Band and Out-Band tone detection and generation. The TP-260 wide selection of TDM interfaces allows easy integration with other third party CTI boards. The E1/T1/J1 PSTN interface and wide range of supported telephony protocols provides TP-260 users a higher level of integration, saving backplane slot space, enabling higher density gateway platforms while reducing the costs per channel.

Universal solution

For traditional CTI applications, the 260 Series has the right mix of firmware-based media processing capabilities such as: record, playback, conferencing, voice coding, echo cancellation, fax processing, and call progress tones detection. In addition, the VoIPerfect™260 is capable of supporting advanced Voice Over Packet features like RTP packet streaming, voice activity detection, transcoding, and industry standard signaling formats. It is available with or without PSTN T1/E1 interfaces and can be configured with up to 8 T1/E1 spans.

Protect Customer Investment

The TP-260 is based on the VoIPerfect™ architecture, AudioCodes' underlying, best-of-breed core technology for all of its products. The TP-260 supports AudioCodes API, which enables software download, provisioning and control. It was designed to maintaining essential API backward compatibility in order to protect customers' investment in the development of products based on former generations.

Enable Fast & Easy Integration

Enabling accelerated design cycles with low to high density and reduced costs, the TP-260 is an ideal building block for scalable, reliable VoIP solutions. With the TP-260's comprehensive feature set, customers can quickly design a wide range of solutions for smooth migration to VoIP networks.

Ai-Logix
An AudioCodes Company

Application Diagram

Integration of VoIPerfect Products in NextGen Enviroment
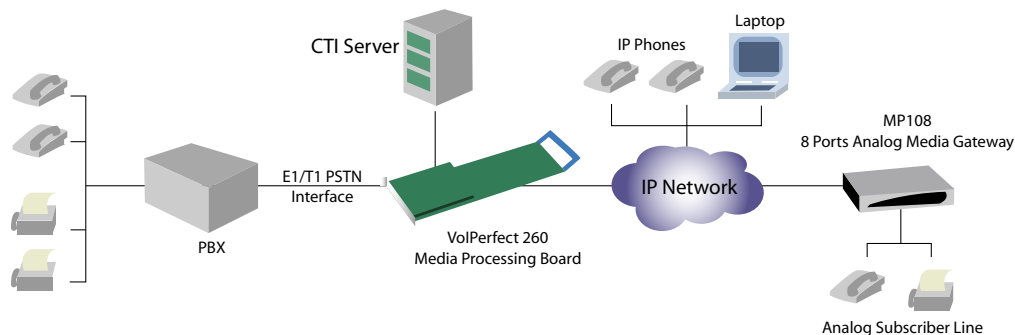
SOFTWARE SPECIFICATIONS

CAPACITY

32, 64, 128 256 independent digital voice, fax and data ports

VOICE COMPRESSION

G.711, G.723.1, G.729A, G.726/G.727, Net Coder ®

Additional coders supported - contact AudioCodes for further information

ECHO CANCELLATION

G.168 compliant 32, 64 echo tail

128 msec tail available with reduced channel capacity

FAX RELAY

Real-time fax over IP/T.38 compliant, automatic fallback to G.711

In-band/Out-band Signaling

Packet side or PSTN side, DTMF and tone detection and generation

IVR SUPPORT

On-board announcement storage - 10 Mb

Recorded prompts - 20 minutes of G.711, 200 minutes of G.723

VoIP STANDARDS COMPLIANCE

RTP/RTCP per RFC1889/1890

DTMF over RTP per RFC 2833

CONTROL PROTOCOLS

Media Gateway on a blade mode:

. Controlled by either MGCP or MEGACO

. PCI used for power only

AudioCodes' proprietary VoIP API Library over IP (TPNCP) or PCI

MANAGEMENT INTERFACES

SNMP V2: Standard MIB-2, RTP MIB, Trunk MIB, AudioCodes proprietary MIB

On-Board Embedded Web Server

OPERATING SYSTEM

. WindowsT NT, 2000, XP . LinuxT . Solaris on SparcT/ IntelT

SIGNALING

PSTN

CAS T1 robbed bit, MFC/R2 numerous country variants

CCS ISDN PRI: numerous country variants including ETSI

EURO ISDN, ANSI NI2, 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 - MVOP, SCbus, H.100

Telephony - 120 Ohm - RJ48C connectors

Ethernet - RJ-45

POWER

3.6A at 5 V with quad E1/T1 interface

OPTIONAL

Universal PCI 5 V/3.3 V signaling

PCI bus - 32/64 bit, 33/ 66 MHz

VOIPERFECT™
Your Gateway to VoIP