# TP-260 8 E1/T1 PCI VoIP Communication Board

- Complete media gateway on a module
- Low to high channel density
- Concurrent toll quality voice and fax support
- Media gateway on a blade mode
- Wide range of PSTN signaling protocols
- Fast time-to-market
- Flexible and easy migration to VoIP networks
- Extensive VoIP experience

The **TP-260** PCI VoIP communication 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.729AB 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.

## Comply with Industry Standards

The TP-260 board complies with industry standard network control protocols including MGCP, MEGACO (H.248) as well as AudioCodes' proprietary TPNCP. These allow for the implementation of a distributed gateway architecture that separates call-processing functions from media streaming functions, resulting in better redundancy, scalability and higher system availability.

## Protect Customer Investment

The TP-260 is based on the VoIPerfect™ architecture, AudioCodes' underlying, best-of-breed, core media gateway technology for all of its products. The TP-260 supports AudioCodes' API, which enables software download, provisioning and control. It was designed to maintain 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.

## TP-260 Features

- 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 support towards PSTN/TDM and IP
- 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 10/100Base-T Network interface
- Optional universal PCI version

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# AudioCodes Enabling Technology Products

# TP-260

## Specifications

| Software Specifications | |
|---|---|
| Capacity | 32, 64, 128, 256 independent digital voice, fax and data ports |
| Voice Compression | G.711, G.723.1, G.729A/B, G.726/G.727, NetCoder® MS-GSM, GSM-FR<br>Additional coders supported – contact AudioCodes for further information |
| Echo Cancellation | G.168 compliant 32, 64 msec echo tail<br>128 msec tail available with reduced channel capacity |
| Fax Relay | Real-time fax over IP/T.38 compliant, automatic fallback to G.711 and VBD for up to super G-3 fax machines |
| ASR-3rd party Recognition Engines | Host-based architecture – media system PCI<br>Distributed Architecture - Media Stream over VoIP RTP |
| In-band/Out-band Signaling | Packet side or PSTN side, DTMF and tone detection and generation, CAS Relay, RFC 2883 |
| IVR Support | On-board announcement storage – 10 Mb: 20 minutes of G.711, 200 minutes of G.723 |
| VoIP Standards Compliance | RTP/RTCP per RFC 3550/3551<br>DTMF over RTP per RFC 2833 |
| Control Protocols | Media Gateway on a blade mode:<br>Controlled by either MGCP or MEGACO<br>PCI used for power only<br>AudioCodes' proprietary VoIP API Library over IP (TPNCP) or PCI |
| Management Interfaces | • SNMP V2c: Standard MIB-2, RTP MIB, DS1 MIB, AudioCodes proprietary MIB<br>• Embedded Web Server |
| Operating System | • Windows™ 2000, XP, 2003 • Linux™ • Solaris™ on Sparc™/Intel™ |
| **Signaling** | |
| PSTN | **CAS** T1 robbed bit, MFC/R2 numerous country variants<br>**CCS** ISDN PRI: numerous country variants including ETSI EURO ISDN, ANSI NI2, DMS, 5ESS, Japan INS1500<br>**SS7** MTP2 and MTP3 link termination |
| SIGTRAN | M2UA and M3UA and IUA over SCTP per RFC 3057/2960 |
| **Hardware Specifications** | |
| Ethernet | 10/100 BASE-T |
| Physical Interfaces | Form factor - Full length PCI board<br>TDM Interfaces - MVIP, SCbus or H.100<br>Telephony –120 Ohm — RJ48C connectors<br>Ethernet – RJ-45<br>Universal PCI 5 V/3.3 V signaling<br>PCI bus –32/64 bit, 33/66 MHz |
| Power | 3.6A at 5 V with quad E1/T1 interface |

## Applications

- Next Generation Switches
- VoIP Access Gateways
- Trunking Gateways
- IP-IVR
- IP-PBXs
- Enterprise Gateways

## About AudioCodes

AudioCodes Ltd. (NASDAQ: AUDC) enables the new voice infrastructure by providing innovative, reliable and cost-effective Voice over Packet technology and Voice Network products to OEMs, network equipment providers and system integrators. AudioCodes provides its customers and partners with a diverse range of flexible, comprehensive media gateway and media processing technologies, based on VoIPerfect™ – AudioCodes' underlying, best-of-breed, core media gateway architecture. The company is a market leader in voice compression technology and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, and enhanced voice services markets. AudioCodes enabling technology products include VoIP and CTI communication boards, VoIP media gateway processors and modules, and CPE devices. AudioCodes' headquarters and R&D facilities are located in Israel with an R&D extension in the U.S. Other AudioCodes' offices are located in Europe, the Far East, and Latin America.

**International Headquarters**
1 Hayarden Street, Airport City
Lod, Israel 70151
Tel: +972-3-976-4000
Fax: +972-3-976-4040

**US Headquarters**
2099 Gateway Place, Suite 500
San Jose, CA 95110
Tel: +1-408-441-1175
Fax: +1-408-451-9520

**info@audiocodes.com**
**www.audiocodes.com**



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