

# TP-260 4 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 128 ports for voice, fax or data implementing VoIP media gateway applications.

### DELIVER FEATURE-RICH SOLUTION

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.

### COMPLY WITH INDUSTRY STANDARDS

The TP-260 board complies with industry standard network control protocols including MGCP, MEGACO (H.248) or AudioCodes' proprietary TPNC. 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 a member of AudioCodes' 4<sup>th</sup> generation of the widely deployed TrunkPack® Media Gateway on a blade family. Like the other members of the TrunkPack® family, the TP-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 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

- 128 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

# AudioCoded™ Enabling Technology Products

## TP-260

### SPECIFICATIONS

#### Software Specifications

Capacity	32, 64, 128 independent digital voice, fax and data ports
Voice Compression	G.711, G.723.1, G.729A, G.726/G.727, NetCoder® Additional coders supported - contact AudioCodes for further information
Echo Cancellation	G.168 compliant 32, 64 msec 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 RFC 1889/1890 DTMF over RTP per RFC 2833
Control Protocols	Media Gateway on a blade mode: <ul style="list-style-type: none"><li>• Controlled by either MGCP or MEGACO</li><li>• PCI used for power only</li></ul> TPNCP - AudioCodes' proprietary VoIP API Library
Management Interfaces	SNMP V2: Standard MIB-2, RTP MIB, Trunk MIB, AudioCodes proprietary MIB On-board Embedded Web Server
Operating System	• Windows NT, 2000, XP • Linux • Solaris on Intel/Sparc

#### Signaling

PSTN	<b>CAS</b> T1 robbed bit, MFC/R2 numerous country variants <b>CCS</b> 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 - MVIP, SCbus, H.100 Telephony - 120 Ohm- RJ48C connectors Ethernet - RJ-45
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) 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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