

TPM-200 VoIP Media Gateway Modules



- Complete media gateway on a module
- Toll quality voice compression
- Rich-Feature set
- Best of breed components
- Field-proven hardware and software
- Fast time-to-market
- Low per channel cost and power

The highly featured, low cost and low power consumption **TPM-200** enables the rapid development of VoIP enabled enterprise equipment. Featuring toll quality voice processing and rich feature set, the TPM-200 is an excellent choice for VoIP enabled routers, PBXs, IADs, and VPN equipment development. Based on AudioCodes' award-winning, field-proven Trunk-Pack® architecture with over seven years and five million ports of field deployments, the TPM-200 reduces development risks and accelerates time-to-market.

COMPLETE MEDIA GATEWAY ON A MODULE

The TPM-200 completely integrates all media gateway technologies into a single device. The TPM-200 accepts 64 kbps voice band traffic, removes the echo, compresses and packetizes the voice, subsequently sending it over the packet network, eradicating the need for external processors. By incorporating standard control protocols such as MEGACO and MGCP with signaling processing, a single module provides developers a complete solution. Being a single integrated solution, the TPM-200 is the preferred choice over competing discrete solutions, while maintaining a competitive price.

FEATURE-RICH SOLUTION

The TPM-200 processes up to 60 compressed channels with a G.168-2000 compliant echo canceller, and complete voice band processing functions. Field-proven G3 Fax Relay, compliant with the T.38 ASN.1 standard, assures successful worldwide fax transmission. Additional advanced features include dynamic packet size programming, dynamic programmable Jitter Buffer, high quality DTMF/MF R1/MF R2/Call Progress Tones, detection and generation of user defined tones and Caller ID, silence suppression, and automatic voice/fax/data discriminator. Control and provisioning is completed by MGCP, MEGACO/H.248, SNMP or AudioCodes proprietary API - TPNCP protocols. The field-proven, feature-rich software assures rapid time-to-market while completely addressing customer requirements.

BENEFIT FROM EXTENSIVE EXPERIENCE

AudioCodes, established in 1993, is one of the world's leading providers of VoIP DSP solutions. During this period, the company successfully passed numerous interoperability tests, while maintaining high levels of performance. AudioCodes' commitment to innovation yields consistently high-quality voice processing products that are feature-rich and field-proven. AudioCodes is a market leader in voice compression technology and the key originator of the ITU G.723.1 standard. AudioCodes has deployed more than 5 million VoP ports to date.

TPM-200 FEATURES

- Density: Up to 60 compressed voice/fax ports
- Control: AudioCodes API - TPNCP, MGCP, MEGACO and SNMP
- Interfaces: PCM Highway and MII
- 0.083 watts per channel
- PMC module compliant with IEEE 1386.1 physical specification

AudioCoded™ Enabling Technology Products

TPM-200

SPECIFICATIONS

Software Specifications

Capacity	Up to 60 compressed low bit rate channels
Voice Compression	G.711 PCM (μ /A-law) at 64 kbps
	G.723.1 MP-MLQ at 6.3 kbps, ACELP at 5.3 kbps
	G.726 ADPCM at 16-40 kbps
	G.727 E-ADPCM at 16-40 kbps
	G728 LD-CELP at 16 kbps*
	G.729A CS-ACELP at 8 kbps
Voice/Fax/Data	GSM 6.10 FR at 13.2 kbps*
	NetCoder® at 6.4-9.6, kbps, 800 bps steps
Voice/Fax/Data	Automatic switching
Fax Support	Group 3 2.4 - 14.4 kbps, T.38 compliant fax relay or automatic switch to PCM
Modem Support	Up to V.92 rates, automatic switch to PCM
Echo Cancellor	G.168-2000 compliant
Jitter Buffer	Dynamic Programmable
VoIP	RTP / RTCP per RFC 1889/1890
Media Gateway Control	MGCP, MEGACO/H.248 or AudioCodes' Proprietary TPNCIP
Management Interface	SNMPv2
Signaling	DTMF (TIA 464B) , MFR1, MFR2, Call progress tones, AC15,
	CAS/ABCD bits
Caller ID Detection and Generation	Detection and generation of user defined tones
	Bellcore Type 1
Input/Output Gain Control	-31 db +31 dB, 1dB step

Hardware Specifications

TDM Interface	PCM highways at 8 MHz
Ethernet Interface	100 Mb/s MII port
Power Supply	3.3v
Form Factor	PMC Module (74 x 149 mm)
Connectors	2 x 64-pin PMC connectors

*Optional

APPLICATIONS

- VoIP enabled Routers
- VoIP enabled PBXs
- Integrated Access Devices
- VoIP enabled VPNs
- Broadband DLCs

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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