TP-260/SIP 8 E1/T1 VoIP PCI Media Gateway Blade

The **TrunkPack®** **(TP)-260/SIP** PCI VoIP Media Gateway blade is a complete SIP-compliant "media gateway on a blade", delivering a cost-effective solution in a convenient PCI form-factor. This unique stand-alone PCI media gateway operates independently and relies on the host PC only for its power. The TP-260/SIP communicates to applications via SIP using an on-board Ethernet interface. Using a special standards-based approach eliminates host PC device drivers and operating system dependencies, seamlessly connecting existing PSTN-based systems to support VoIP.

The TP-260/SIP is an ideal solution for SIP trunking gateways and integrated media gateways for IP-PBXs and all-in-one communication servers. The blade is designed for enterprise applications or for smaller to medium PC-based systems. The TP-260/SIP provides up to 240 ports for voice, fax or data for VoIP media gateway applications. Employing SIP as a control protocol, the TP-260/SIP enables System Integrators (SIs) short time-to-market and reliable cost-effective deployment of next-generation networks. The TP-260/SIP utilizes AudioCodes' TPM-1100 PMC modules which are based on the VoIPerfect™ architecture, AudioCodes' underlying core media gateway technology.

Deploy Best-of-Breed Right-Sized Systems

The TP-260/SIP PCI VoIP Media Gateway on a blade matches the density requirements for small to medium locations, while meeting Network Service Providers' demands for scalability. The TP-260/SIP stand-alone VoIP Gateway on a blade scales from 1 to 8 E1/T1/J1 spans in a single PCI slot and provides an excellent gateway solution for enterprise applications as well as carrier locations.

Create Flexible Products and Services

The TP-260/SIP enables NEPs to immediately address opportunities that utilize a myriad of legacy circuit-switched infrastructure features and functionalities. The TP-260/SIP extends the flexibility of the Media Gateway family with additional deployment options – made available by providing smaller size and finer granularity of the digital trunk scalability options. The open platform of the TP-260/SIP offers NEPs the option to install this complete SIP controlled Media Gateway blade into their PC server, running the application to have a complete solution within the same server.

Benefit from Extensive Gateway Experience

AudioCodes' commitment to innovation yields consistently high-quality voice processing products that are flexible, intelligent and comprehensive.

TP-260/SIP Features

- 30, 60, 120 and 248 independent voice/fax/data ports
- VoIP packet streaming (RTP/RTCP)
- Real-time fax over IP/T.38
- Tone detection and generation (MF, DTMF, RFC 2833)
- PSTN Signaling: CAS, ISDN PRI
- SIGTRAN IUA, M2UA, M3UA over SCTP
- Management Interfaces: Web server, SNMP V2
- On-board 10/100 Base-T Network interface
- Universal PCI interface – power supply only
- Unrestricted PCI bus or PC CPU power

- **Complete stand-alone SIP media gateway on a PCI blade**
- **Low to high channel density**
- **Concurrent toll quality voice and fax support**
- **Wide range of PSTN signaling protocol termination**
- **Fast time-to-market**
- **Extensive VoIP experience**
- **Very small footprint**

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BLADE BUSINESS LINE

AudioCodes Enabling Technology Products

TP-260/SIP

SPECIFICATIONS

Software Specifications	
Capacity	30, 60, 120, and 248 channels of independent, simultaneous VoIP calls supporting voice, fax and data ports
Voice Compression	G.711, G.723.1, G.729A/B, G.726/G.727, Net Coder®, MS-GSM, GSM-FR, iLBC
	Additional coders supported – contact AudioCodes for further information
Echo Cancellation	G.168-2002 compliant 32, 64 echo tail
	128 msec tail with reduced channel capacity
Fax Relay and Termination	Real-time fax over IP/T.38 compliant, automatic fallback to G.711 and VBD for up to super G-3 fax machines
	Support for Fax Termination (Available with AudioCodes S/W based stack)
ASR - 3rd party Recognition Engines	Host-based Architecture -- Media Stream over PCI
	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 2833 compliant
VoIP Standards Compliance	RTP/RTCP per IETF RFC 3550/3551
	DTMF over RTP per RFC 2833
Control Protocols	SIP (RFC 3261) controlled, stand-alone Media Gateway on a blade;
	PCI used for power only
Management Interfaces	• SNMP V2c/V3: Standard MIB-2: system, interfaces, if-MIB, entity-MIB, RTP-MIB, DS1-MIB, snmpV2-MIB and AudioCodes' proprietary MIB
	• On-board embedded secure Web Server
Operating System	PCI is used for power only (supports any OS on the server or no CPU blade at all)
PSTN Protocol Termination	**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
	SS7 MTP2 and MTP3 link termination, SS7 monitoring ISUP and SCCP/TCAP termination (Available with AudioCodes S/W based stack)
SIGTRAN	M2UA, M3UA, IUA and DUA over SCTP per RFC 2960

Hardware Specifications	
Ethernet	10/100 BASE-T
Physical Interfaces	Form factor – Full length universal PCI blade
	TDM Interfaces – MVIP, SCbus, H.100
	Telephony – 120 Ohm - RJ48C connectors
	Ethernet – RJ-45
	Universal PCI 5 V/3.3 V signaling
	PCI bus – 32/64 bit, 33/66 MHz
Power	3.6A at 5V with quad E1/T1 interface

APPLICATIONS
- VoIP Trunking Gateway
- VoIP Access Gateways
- VoIP Enterprise Gateways
- IP-PBXs
- IP Centrex Gateways

ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC), Your Gateway to VoIP, provides innovative, reliable and cost-effective Voice over Packet (VOP) technology and Voice Network products to OEMs, Network Equipment Providers, Service Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway and media processing technologies (based on VoIPerfect™ – AudioCodes' underlying, best-of-breed, core media gateway architecture) and Session Border Controllers (SBCs). The company is a market leader in product development, focused on VoIP Media Gateway, Media Server and SBC technologies and network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past few years and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. The Company is a VoIP technology leader focused on quality, having recently received a number one ranking from ETSI for outstanding voice quality in its media gateways and media servers. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, enhanced voice services and video markets. AudioCodes enabling technology products include VoIP and CTI communication blades, 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.

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