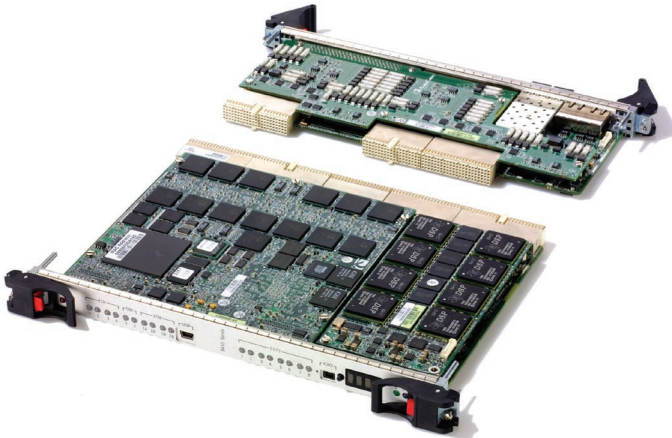


TP-8410 42 E1/T1 VoIP cPCI Media Gateway Blade



- Converges Media and Signaling gateways on a single blade
- Up to 2,016 bi-directional independent channels
- Offers a cost effective scalable solution up to 42 E1/T1 PSTN spans
- Provides a large selection of wireline, wireless, cable and wideband (VoBB) vocoders
- Allows advanced security features including IPsec, TLS and SRTP
- Supports IP packet to packet mediation – with or without Transcoding

The **TP-8410 (TrunkPack™)** is a feature rich, high-density, high-performance cPCI VoIP communication platform, supporting up to 42 E1/T1 PSTN spans and up to 2,016 channel interfaces. Based on AudioCodes best-of-breed VoIP infrastructure and extensive experience in the field, the TP-8410 enables powerful and flexible distributed system architecture for enhanced media gateway implementations and deployments. The TP-8410 is a hot-swappable blade designed for carrier-grade applications, and is compliant with telecom and safety regulations.

DELIVER FEATURE-RICH SOLUTIONS

The TP-8410 supports a broad selection of voice processing algorithms, which include wireline, wireless, cable, cellular and wideband (VoBB) vocoders, G.168 echo cancellation, T.38 fax relay and a wide range of in-band and out-band tone detection and generation. Additionally, the TP-8410 supports signaling protocols including ISDN PRI, CAS, SS7 and SIGTRAN.

COMPLY WITH INDUSTRY STANDARDS

The TP-8410 complies with industry-standard network control protocols, including SIP as well as AudioCodes' proprietary API. This allows the implementation of a distributed gateway architecture that separates call processing functionalities from media processing functionalities. This in turn results in improved redundancy, scalability and higher system availability.

ADVANCED SECURITY SUITE

With the advent of VoIP, security is becoming a crucial challenge. The TP-8410 Media Gateway addresses these concerns, offering advanced security capabilities, which include SRTP for the media, IPsec for the control and OAM, and TLS for SIP.

SELECTED TP-8410 FEATURES

- Complete Media Gateway on a blade
- Up to 2,016 IP bi-directional channels for voice and fax sessions
- Up to 42 E1/T1 PSTN interfaces for voice and fax sessions
- Signaling: ISDN PRI, CAS and SS7
- Dual Gigabit Ethernet ports for redundancy
- Support for wideband vocoders (VoBB) including G.722 and AMR-WB

AudioCodes Enabling Technology Products

TP-8410

SOFTWARE SPECIFICATIONS

Audio Capabilities

Capacity	Scalable solution Up to 2,016 bi-directional channels for voice, fax and modem Up to 42 E1/T1 PSTN spans
Voice Compression ¹	G.711, G.723, G.726/7, G.729A/B GSM-FR, AMR (8 Rates), iLBC EVRC, EVRC-A, EVRC-B G.729E Wideband coders (VoBB): G.722, AMR-WB
IP Transport	IETF RFC3550 & RFC3551 IP/RTP transport GSM/UMA (AMR): RFC3267 CDMA: IETF RFC3558 RTP/UDP/IP
Echo Cancellation	G.168-2004 compliant with tail of 32, 64 and 128 ms
In-band/Out-band signaling	DTMF, MF and Call Progress Tone (CPT) Detection and Generation
Fax Relay	Real-time fax over IP/T.38 compliant, Support for fax termination ²
Transcoding (Packet to packet mediation)	Transcoding from Low Bit Rate coder to High Bit Rate coder or to a different Low Bit Rate coder
Security ¹	IPSec for control protocols and management TLS for SIP HTTPS for Web SRTP and AES for data plane security VLAN and IP separation support for OAM, control and media traffic Integrated Firewall (access list setting)
Control Protocols	SIP implemented according to RFC3261 AudioCodes proprietary API

General Capabilities

Management Interface	SNMP V2 & SNMP V3: Standard MIB-2, RTP MIB, DS1 MIB, AudioCodes' Proprietary MIB On-board Embedded Web Server
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Signaling

PSTN Protocols	CAS	T1 robbed bit, MF-R1, MFC-R2 (numerous country variants), DTMF tone detection & generation
	CCS	ISDN PRI: numerous country variants including ETSI EURO ISDN, ANSI NI2, DMS, 5ESS Japan INS1500, V5.2AN ²
	SS7	MTP2, MTP3
SIGTRAN	M2UA, M3UA, IUA over SCTP (RFC2960)	

Hardware Specifications

Physical Interfaces	Form factor – 6U cPCI blade PSTN – E1/T1 – trunks on RTM SCSI connector Ethernet – 2 GBE I/F on RTM (copper on RJ-45)
Power	42 spans hardware configuration: 10A at 3.3V; 11A at 5V; 0.9 A at 12V 16 spans hardware configuration: 6A at 3.3V; 3A at 5V; 0.9 A at 12V

¹ May reduce channel capacity

APPLICATIONS

- VoIP access gateway
- Transcoding application (IP–mediation)
- Next generation switches
- Wideband (VoBB) applications

ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUCD) provides innovative, reliable and cost-effective Voice over IP (VoIP) technology, Voice Network Products, and Value Added Applications to Service Providers, Enterprises, OEMs, Network Equipment Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway, and media processing enabling technologies based on VoIPerfect™ – AudioCodes' underlying, best-of-breed, core media architecture. The company is a market leader in VoIP equipment, focused on VoIP Media Gateway, Media Server, Session Border Controllers (SBC), Security Gateways and Value Added Application network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past ten years and is a key player in the emerging best-of-breed, IMS based, VoIP market. The Company is a VoIP technology leader focused on quality and interoperability, with a proven track record in product and network interoperability with industry leaders in the Service Provider and Enterprise space. AudioCodes Voice Network Products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, cable, enhanced voice services, video, and Enterprise IP Telephony markets. AudioCodes' headquarters are located in Israel with R&D in the U.S. Other AudioCodes' offices are located in Europe, India, the Far East, and Latin America.

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