

PRELIMINARY

TP-12610 AdvancedTCA™ VoIP Communication Blade

AdvancedTCA®

- Very high channel density – scalable up to 4032 LBR VoIP channels
- AdvancedTCA® (PICMG® 3.0) compliant
- Concurrent toll quality voice and fax support on all channels
- Integrated Video processing capabilities for 3G media server applications
- STM-1/OC-3, T3, E1/T1 PSTN interface
- Built on 4 previous generations of field-proven and widely deployed VoIP technology

The **TrunkPack®-12610** AdvancedTCA® PICMG® 3.0 compliant VoIP Media Gateway and media processing blade is an ideal building block for deploying advanced high-density, high availability Voice over Packet (VoP) systems. The TP-12610 is designed to meet the requirements of engineers designing high-density VoIP trunking and access gateways, voice and video media servers, cable telephony gateways and wireless gateways. Offering integrated voice and signaling gateway functionality, the TP-12610 supports all necessary functions for voice and fax streaming over IP networks.

DELIVER FEATURE-RICH SOLUTIONS

The TP-12610 supports a wide array of voice processing-related algorithms, including G.711, G.723.1, and G.729AB, AMR, QCELP and GSM Vocoders, G.168-compliant echo cancellation, T.38 real-time Fax over IP; a wide selection of In-band and Out-band tone detection and generation. In addition, the TP-12610 supports signaling protocols including: ISDN PRI, SIGTRAN (xUA), and CAS protocols. All media processing, signaling and control protocols are applied independently and simultaneously on all of the 4032 LBR channels.

COMPLY WITH INDUSTRY STANDARDS

The TP-12610 blade complies with industry standard network control protocols, i.e. MEGACO (H.248), SIP, as well as AudioCodes' proprietary API (TPNCP). This allows for the implementation of 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-12610 is based on the VoIPerfect™ architecture, AudioCodes' underlying, best-of-breed core media gateway technology for all of its products. The TP-12610 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 and platforms.

ENABLE FAST & EASY INTEGRATION

Combining the Advanced Telecommunication Computing Architecture (ATCA) integrated management and provisioning features and AudioCodes VoIP media Gateway expertise, the TP-12610 is an ideal building block for cost-effective carrier-grade VoIP solutions.

TP-12610 FEATURES

- 4032 voice/fax independent multiple LBR channels
- OC-3/STM-1, T3 and T1/E1/J1 trunks for PSTN interface
- Scalable offering supporting lower channel counts than 4032
- MEGACO (H.248) and SIP² compliant
- Complete "Media Gateway on a blade"
- Video streaming, conferencing and transcoding²
- MPEG 4, H.264, H.264 video coding²
- G.168-2002 compliant echo cancellation
- Real-time fax over IP/T.38
- Transcoding between various coders
- PSTN Signaling: CAS, ISDN PRI and SS7 layer 2/3 termination
- Tone detection and generation (MF, DTMF, RFC 2833)
- SIGTRAN IUA, M2UA, M3UA² over SCTP
- Dual redundant PICMG 3.0 Base interface
- Dual star PICMG 3.1 Fabric interface
- Optional 2 AMC sites for Application CPU and storage

AudioCodes Enabling Technology Products

TP-12610

SPECIFICATIONS

Software Specifications

Capacity	Up to 4032 independent digital voice, fax and data ports 2016 channels with 2 AMC sites
Voice Compression	G.711, G.723.1, G.729AB, G.726/G.727, iLBC EVRC, QCELP8, QCELP13, NB-AMR, GSM-FR, GSM-EFR
Video Processing ²	H.263, H.264, MPEG 4 Resolution: SQCIF, QCIF, CIF Video conferencing, trans-coding and streaming
Echo Cancellation	G.168-2002 compliant 32, 64, 128 msec echo tail
Fax Relay and Termination	Real-time fax over IP/T.38 compliant, automatic fallback to G.711 Support for Fax Termination (Available with AudioCodes S/W based stack)
In-band/Out-band signaling	Packet side or PSTN side, DTMF and tone detection and generation
VoIP Standards Compliance	RTP/RTCP per RFC 3550/3551 DTMF over RTP per RFC 2833
Control Protocols	MEGACO (H.248) SIP ² AudioCodes' proprietary VoIP API Library over IP (TPNCP)
Management Interfaces	• SNMP V2c: 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	• Windows™ 2000, XP, 2003 • Linux™ ⁴ RH8, RH9, Debian, Enterprise • Solaris™ ⁴ 8,9 on Intel™/Sparc™ 32/64

Signaling

PSTN	CAS T1 robbed bit, MFC/R2 numerous country variants CCS² ISDN PRI: ANSI N12, DMS100, 4ESS, 5ESS, ETSI Euro ISDN SS7 MTP2 and MTP3 link termination ISUP and SCCP/TCAP termination (Available with AudioCodes S/W based stack)
SIGTRAN	M2UA, M3UA, IUA and DUA over SCTP per RFC 2960

Selected Hardware Specifications

Ethernet	Dual redundant PICMG 3.0 Base interface
Fabric	Dual star PICMG 3.1 fabric interface
Physical Interfaces	PSTN – OC-3/STM-1 Dual Optical Replaceable LC connectors on rear panel, T3, T1/E1/J1
On-Board Processor Module	2 AMC compliant sites for application processor and storage
Form Factor	PICMG 3.0 single slot

1 See release note for specific OS releases supported

APPLICATIONS

- Next Generation Switches
- VoIP Access Gateways
- Trunking Gateways
- Voice and Video Media Servers
- Wireless 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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