# AudioCodes Mediant Gateways enable Microsoft Unified Communications

- Simultaneous support of PBX connections to Microsoft Exchange Server 2007 & Microsoft Office Communications Server 2007
- Employs AudioCodes VoIPerfect™ technology for outstanding voice quality, and high performance speech recognition within the Microsoft environment
- Support for both "Basic Gateway" and "Basic Hybrid Gateway" configurations on the same gateway
- Scalable "pay-as-you-grow" modular architecture
- Mix and Match rich offering of digital (E1/T1/J1/BRI) and analog (FXS/FXO) interfaces
- Wide Homologation base
- Wide range of supported PSTN signaling protocol flavors
- High level of interoperability with various commercially available legacy PBXs & business telephony equipment
- Enables cost effective migration from a legacy PBX network to a pure IP Unified Communications Architecture, using the same gateway

AudioCodes has collaborated with Microsoft to provide enterprises with a smooth migration from the world of separated telephony and IT environments, to the world of Unified Communications.

AudioCodes offers the enterprise customer a key component in the unified telephony network – the Media Gateway - which connects the existing legacy telephony PBX with Microsoft Exchange Server 2007 & Microsoft Office Communications Server 2007.

AudioCodes Mediant™ Media Gateways are cost-effective VoIP media gateways utilizing cutting edge technology. Intelligently packaged in a stackable 1U chassis they are designed to interface between Enterprise legacy telephony & IP networks

## Scale Up As Your Business Grows

The AudioCodes MediaPack™ and Mediant Media Gateways support different standalone and modular configurations, enabling the connection of the Microsoft Unified Communications solution to different models of PBXs using different types of telephony interfaces, including E1/T1/J1 spans, BRI interfaces and/or analog ports in various FXO/FXS configurations.

In addition, the AudioCodes Mediant™ 1000 and the Mediant™ 2000 Media Gateways can be ordered as "Basic Hybrid Gateways", supporting an integrated Microsoft Mediation Server, with up to 16 and 120 RTA channels respectively.

## Support of Microsoft Exchange Server 2007 & Microsoft Office Communications Server 2007

The Mediant Media Gateways can support the connection to legacy PBXs and PSTN, both for Exchange Server 2007 Unified Messaging deployments and Office Communications Server 2007 deployments. Enterprises can smoothly migrate from isolated telephony and IT environments, and connect their legacy PBXs to the Microsoft Exchange Server 2007 as well as to the Microsoft Office Communications Server 2007, allowing full implementations of Unified Messaging and Unified Communications in the enterprise.

Ultimately, the organization can migrate to a pure-IP environment, using the Office Communications Server 2007 as the communications platform, connecting to the PSTN via the AudioCodes Mediant Media Gateways.

## How to Order?

AudioCodes Media Gateways are available globally, have been tested for interoperability with many legacy PBXs and homologated in over 75 countries worldwide.

AudioCodes Media Gateways are provided with a 12 month hardware warranty.

A list of worldwide AudioCodes channels, interoperable PBXs and countries with PSTN homologation is available on the AudioCodes website Microsoft resource page: www.audiocodes.com/microsoft

AudioCodes

Microsoft CERTIFIED Partner

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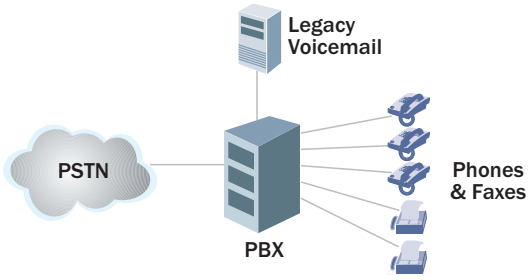
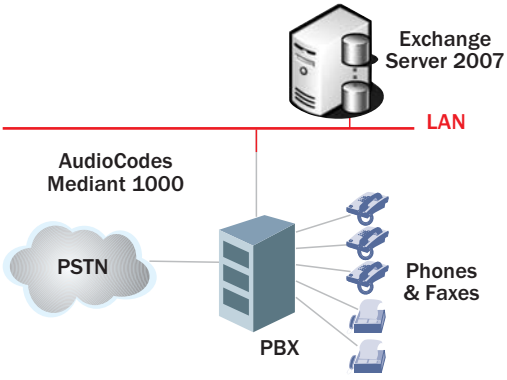
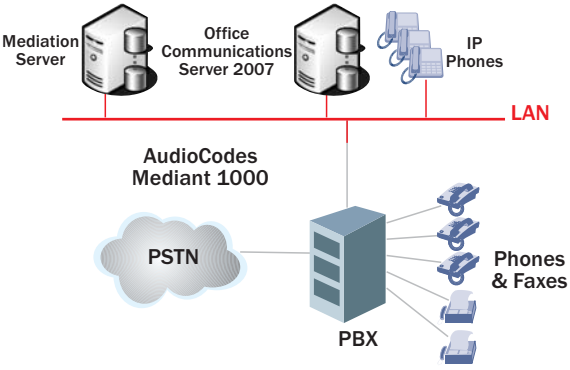
## Legacy Telephony



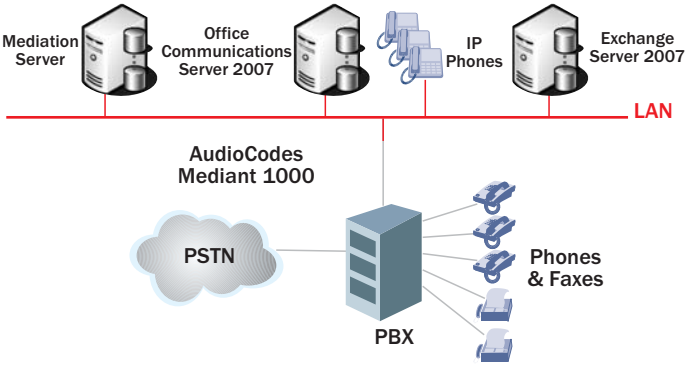

## Exchange Server 2007 UM



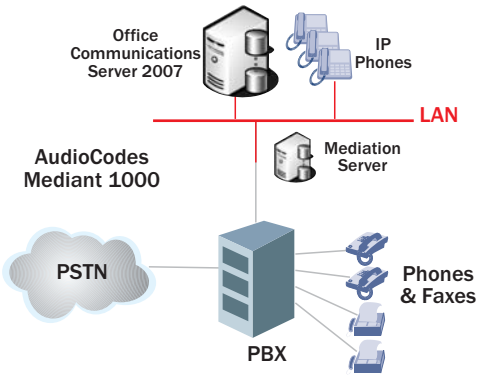

## Office Communications Server 2007 ("Basic Gateway")



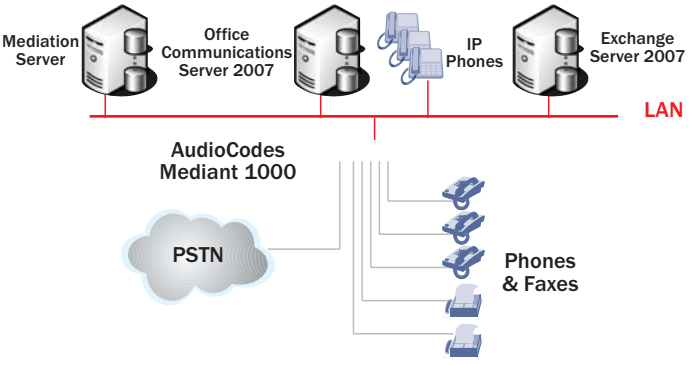

## Exchange & Office Communications Server




## Office Communications Server 2007 ("Basic Hybrid Gateway")




## Exchange & Office Communications Server - No Legacy PBX



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## Specifications

| | Mediant™ 1000 | Mediant™ 2000 | MediaPack™ 11x |
|---|---|---|---|
| **Interfaces** | | | |
| Modularity and Capacity | 6 slots for analog or digital modules<br>Up to a maximum of 24 analog ports, 4 digital spans or 20 BRI ports | 1, 2, 4, 8 or 16 E1/T1/J1 spans<br>Software Scalability Option | 2, 4, 8, or 24 FXS ports<br>4 or 8 FXO ports<br>2FXS+2FXO, or 4FXS+4FXO mixed |
| Digital Modules | 1, 2 or 4 E1/T1/J1 spans using RJ-48c connectors per module<br>Up to 4 digital modules (maximum 4 spans per gateway)<br>Optional 1+1 or 2+2 fallback spans | 16 E1/T1/J1 using dual 50- pin Telco connectors or up to 8 E1/T1/J1 spans using RJ-48c connectors | |
| Analog FXO and FXS Modules | 2 or 4 ports using RJ-11 connectors per module, up to 6 modules per gateway, Ground Start and Loop Start<br>One Lifeline port per FXS module (in case of power failure or network problems) | | A number of FXS and/or FXO ports configurations, using RJ-11 connectors Ground Start and Loop Start |
| BRI Modules | 4 BRI ports (8 calls) per module, up to 5 modules per gateway with S/T interfaces | | |
| CPU Module (Hosting Microsoft Mediation Server in "Basic Hybrid" Configurations | CPU: Intel™ Celeron™ 600 Mhz; Memory: One SODIMM slot 512M or 1G RAM; Storage: Single/Dual hard disk drives; Interfaces: 10/100 Base-TX, USB, RS-232, NB relay, MOH | CPU: Intel Core 2 Duo T7400 2.16 GHz; Memory: 2G RAM; Storage: Single 40 Gbyte hard disk drive; Interfaces: 10/100/1000 Ethernet, USB 2.0, RS-232 | |
| Ethernet | Dual Redundant 10/100 Base-TX Ethernet ports via 2 RJ-45 connectors | | 10/100 Base-TX Ethernet port via RJ-45 connector |
| RS-232 | Debugging | Optional on 1/2/4 span models, with SMDI support | Debugging & SMDI support |
| **Voice Channel Capacity** | | | |
| "Basic" Configuration (G.711) | 120 | 480 | 8 (on MP-118 FXO) |
| "Basic Hybrid" Configuration (Microsoft RTA) | 16 | 120 | N/A |
| **Media Processing** | | | |
| Voice Coders | G.711, G.726, G.723.1, G.729A, GSM-FR, MS-GSM, Microsoft RTA (in "Basic Hybrid" Configuration)<br>Independent dynamic vocoder selection per channel | | G.711, G.726, G.723.1, G.729A |
| Echo Cancellation | G.165 and G.168-2002, with 32, 64 or 128 tail length | | G.168-2004 |
| Quality Enhancement | Dynamic programmable jitter buffer, VAD, CNG, 802.1p/Q VLAN tagging, DiffServ, voice quality monitoring | | |
| DTMF/MF Transport | Packet side or PSTN side detection and generation, RFC 2833 compliant DTMF relay, Call Progress tones Detection and Generation | | |
| IP Transport | VoIP (RTP/RTCP) per IETF RFC 3550 and 3551 | | |
| Fax and Modem Transport | T.38 compliant (real time fax), Automatic bypass to PCM or ADPCM | | |
| **Signaling** | | | |
| Digital –PSTN Protocols | **PSTN:** Protocol termination<br>**CAS MF-R1:** Wink Start, delay dial, immediate start, FGB, FGD, E911 CAMA<br>MFC/R2 numerous country variants<br>Unique script for each country variant, enabling maximum flexibility of the entire state machine of each CAS protocol<br>**ISDN PRI:** ETSI EURO ISDN, ANSI N12, DMS Switch, 5ESS Switch, Japan INS1500, QSIG Basic Call, Australian Telecom, New Zealand Telecom, Hong Kong Variant, Korean MIC and others, VN 3, 4, 6 (French variant) | | |
| Analog Signaling | FXS, Caller ID, polarity reversal, metering tones, distinctive ringing, visual message waiting indication | | FXS, Caller ID, polarity reversal, metering tones, distinctive ringing, visual message waiting indication |
| **Management** | | | |
| Operations & Management | AudioCodes Element Management System<br>Embedded HTTP Web Server, Telnet, SNMP V2, V3<br>Remote configuration and software download via TFTP, HTTP, HTTPS, DHCP and BootP, RADIUS, Syslog (for events, alarms and CDRs) | | |
| Security | IPSEC, HTTPS, TLS (SIPS), SSL, Web access list, RADIUS login, SRTP | | |
| **Hardware Specifications** | | | |
| Power Supply | Single universal 90-260 V AC, redundant power supply | Single universal 90-260 V AC or dual-redundant AC or single -48 V DC | 100-240 V AC/50-60 Hz |
| Physical | 1U high, 19-inch wide rack mount | | Tabletop 42x172x220mm (MP-112)<br>42x172x220mm (MP-114/8)<br>44x445x269mm (MP-124) |

## About AudioCodes

AudioCodes Ltd. (NASDAQ: AUDC) 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.

**International Headquarters**
1 Hayarden Street, Airport City
Lod, Israel 70151
Tel: +972-3-976-4000
Fax: +972-3-976-4040

**US Headquarters**
2099 Gateway Place, Suite 500
San Jose, CA 95110
Tel: +1-408-441-1175
Fax: +1-408-451-9520

**Contact us: www.audiocodes.com/info**
**Website: www.audiocodes.com**



**Ref#** LTRM-05007 09/07 V.1

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