AudioCodes CPE and Access Gateway Products

MediaPack™ 1288

High Density Analog VolP Gateway



Benefits

- High density analog media gateway supporting up to 288 FXS Ports
- Ideal for large analog deployments for converting voice, fax and modem calls to IP
- Scalable solution with three capacity options: 288, 216 and 144 ports
- Cost-effective single management interface, single IP, no need to stack and cable multiple small analog gateways
- Reduced footprint 3U Chassis
- Designed for carrier environments, providing high availability with dual Power Supply modules and Ethernet port redundancy
- Rich interoperability and partnerships that extend across multiple vendor devices and protocol implementations
- Delivers high service performance and voice quality

Key Features

- Support for advanced coders such as NB-AMR and NB-Opus
- Support for SRTP on all channels without capacity hit
- Automatic switching to PSTN via lifeline interfaces on power or network failure
- Integrated protection against surge damage on FXS ports (ITU-T K.21 - basic level compliance)
- Supports short and long haul up to 7.5 Km
- Support for emergency / elevator phones that require higher loop current and increased ring voltage
- Rich and Powerful SIP normalization and routing mechanisms for seamless interoperability
- SIP header manipulation
- Extensive fax support including T.38 version 3
- Supports survivability for hosted communications services and centralized IP-PBX deployments*
- * Roadmap

The AudioCodes MediaPack 1288 (MP-1288) is a cost-effective, best-of-breed high density analog media gateway. The MP-1288 analog VoIP gateway provides superior voice technology for connecting legacy telephones, fax machines and modems with IP-based telephony networks, as well as for integration with IP PBX systems. It is designed and tested to be fully interoperable with leading softswitches, unified communications (UC) servers and SIP proxies.

Proven Interoperability

The MP-1288 is part of AudioCodes' comprehensive family of standalone VoIP gateways. AudioCodes has a long history of investing significant effort in complying with the leading and evolving VoIP standards. Our products have proven SIP interoperability with leading softswitch vendors. As a provider for OEMs, system integrators and network equipment providers, AudioCodes offers reduced time-to-market with field-proven products.

Reliability

The MP-1288 is designed for carrier environments including 1+1 power supplies and 1+1 Ethernet redundancy maintaining high voice quality to deliver reliable enterprise VoIP communications. Advanced call routing mechanisms, network voice quality monitoring and survivability capabilities* (including PSTN fallback) result in minimum communications downtime.

Applications

- Enterprise campus deployments
- PSTN emulation for service providers
- Large-scale analog integration with Lync/Skype for Business or other cloud-based or hybrid PBX deployments



SPECIFICATIONS

*Roadmap feature

| Telephony Capacity Hardware Elements Signaling Control Message Manipulation SIP Routing Routing Methods Redundancy Routing Features Voice Capabilities | Up to 288 ports in 4 FXS Blades (eac Three available capacity options: 286 • Single System Controller (SC) • 4 FXS Blades with analog interface SIP (RFC 3261), mature & broadly de Ability to add/modify/delete SIP heac | | |
|--|---|---|---------------------------------------|
| Signaling Control Message Manipulation SIP Routing Routing Methods Redundancy Routing Features Voice Capabilities | Single System Controller (SC) 4 FXS Blades with analog interface SIP (RFC 3261), mature & broadly de | 5, 210 and 144 ports | |
| Signaling Control Message Manipulation SIP Routing Routing Methods Redundancy Routing Features Voice Capabilities | SIP (RFC 3261), mature & broadly de | • 1+1 Powe | |
| Control Message Manipulation SIP Routing Routing Methods Redundancy Routing Features Voice Capabilities | | es (hot-swappable*) • Fan Modu | le (front-to-rear air flow) |
| Message Manipulation SIP Routing Routing Methods Redundancy Routing Features Voice Capabilities | | inloved CID stock | |
| SIP Routing Routing Methods Redundancy Routing Features Voice Capabilities | | | and regular syntagions (regay) |
| Routing Methods Redundancy Routing Features Voice Capabilities | | ders and message body using advar | nced regular expressions (regex) |
| Redundancy Routing Features Voice Capabilities | Depart LIDL ID Address FORM FAILING advanced LDAD shird and says in the control through DEGT ADI | | |
| Routing Features Voice Capabilities | Request URL, IP Address, FQDN, ENUM, advanced LDAP, third-party routing control through REST API | | |
| Voice Capabilities | Detection of proxy failures and subsequent routing to alternative proxies | | |
| | Least-cost routing, call forking, load b | palancing, emergency call detection | and prioritization |
| | G 168-2004 compliant Echo Cancella | ation Packet Loss Concealment Du | namic Programmable litter Ruffer Sile |
| Voice over Packet | G.168-2004 compliant Echo Cancellation, Packet Loss Concealment, Dynamic Programmable Jitter Buffer, Silen Suppression/Comfort Noise Generation, RTP redundancy, broken connection detection | | |
| Voice Compression | G.711, G.723.1, G.726 ADPCM, G.727 ADPCM, G.729A/B, G.722, AMR-NB, Opus-NB | | |
| Fax-over-IP | Bypass, T.38 and T.38v3 | | |
| 3-Way Conference | 3-way conference with local mixing across all FXS Blades | | |
| In-band Signaling | DTMF (TIA 464B), User-defined and call progress tones | | |
| Out-of-Band Signaling | DTMF Relay (RFC 2833), DTMF via SIP INFO/NOTIFY | | |
| Network Protocols | | | |
| IP Transport | IPv4, IPv6 for media and control, RTf | P/RTCP per IETF RFC 3550 | |
| Security | | | |
| Media | SRTP | Control | TLS/SIPS |
| Management | HTTPS, SSH, SNMPv3, Access List, R. | ADIUS Web and Telnet authorization | 1 |
| Voice Quality and SLA | | | |
| Survivability* | Ensures call continuity between LAN | SIP clients upon connectivity failure | e. Support 300 registered users |
| Packet Marking | 802.1p/Q VLAN tagging, DiffServ, TOS | | |
| Voice Enhancement | RTCP-XR, acoustic echo cancellation, replacing voice profile due to impairment detection | | |
| Test Agent | Ability to remotely verify connectivity, | voice quality and SIP message flow | between SIP UAs |
| Management | | | |
| OAM&P | Browser-based GUI, CLI, SNMP, EMS, | INI configuration file, REST API | |
| Automatic Configuration | DHCP, TFTP and HTTP for automatic i | nstallation | |
| Physical Interfaces | | | |
| Telephone Interfaces | Up to 288 FXS ports | | |
| Lifeline | Automatic switching to PSTN via 3 de | dicated lifeline interfaces per FXS E | Blade |
| Network Interfaces | Dual Redundant 10/100/1000 Base-T Ethernet ports Dual Redundant Small Form-Factor Pluggable (SFP)-based connectivity Note: Hardware installation selectable option DUAS portical interface for least programment. | | |
| Console USB Interface | RJ-45 serial interface for local manage USB 2.0 for supporting external USB | - | |
| Power | GGB 2.0 for supporting external GGB | dongle | |
| AC Input Voltage | 100 - 240 V AC | DC Input Voltage* | -48 V DC |
| Max. AC Input Current | 10 A | AC Input Frequency | 50/60 Hz |
| Redundant Power Supply | Optional, dual feed, redundant Power | | 33, 33 112 |
| ricuandant rower ouppry | FXS Interfaces | Short Haul (W) | Long Haul (W) |
| | 288 | 450 | 950 |
| Max Power Consumption | 216 | 400 | 770 |
| | 144 | 350 | 600 |
| Physical | 144 | 330 | 600 |
| Width | 17.24 inches (438 mm) | Hoidet | 5.16 inches (131.2 mm) |
| | , , | Height | |
| Depth | 17.75 inches (451 mm) | Weight | 21 Kg (fully populated system) |
| Mounting | 3U, 19-inch rack | | |
| | Operational Temp.: 0 to 40°C | Storago Tomp : 40 to 70°C | <u> </u> |
| | (41 to 104°F) | Storage Temp.: -40 to 70°C (-40 to 158°F) | ' Humidity: 5 to 90% non-condensis |
| | ITU-T K.21 (basic) compliant. Note: Routing of FXS telephony cables outdoors can be done only in conjunction with AudioCodes-approved primary surge protector and proper installation and grounding. | | |
| Temperature Over-voltage protection and surge immunity | | | |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications | proper installation and grounding. | | |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications | | nnector | |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type | proper installation and grounding. | | |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats | proper installation and grounding. FXS connection via 50-pin CHAMP co | Out-of-band pulse signalling* | |
| Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. | Out-of-band pulse signalling* pedance) . on two ports per FXS Blade for em | |
| Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current | FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F | Out-of-band pulse signalling* pedance) on two ports per FXS Blade for em XS Blade for emergency / elevator p | phones) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current Ring Voltage (Sine) | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. | Out-of-band pulse signalling* pedance) on two ports per FXS Blade for em XS Blade for emergency / elevator p | phones) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current Ring Voltage (Sine) Ring Frequency | FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F Notes: Balanced ringing only, Enables simult 25-100 Hz | Out-of-band pulse signalling* pedance) on two ports per FXS Blade for em XS Blade for emergency / elevator p | phones) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current Ring Voltage (Sine) Ring Frequency Maximum Ringer Load | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F Notes: Balanced ringing only, Enables simults 25-100 Hz Ringer Equivalency Number (REN) 3 | out-of-band pulse signalling' pedance) . on two ports per FXS Blade for em XS Blade for emergency / elevator r aneous ringing of 288 phones (72 per FXS | phones) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current Ring Voltage (Sine) Ring Frequency Maximum Ringer Load Caller ID | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F Notes: Balanced ringing only, Enables simult 25-100 Hz Ringer Equivalency Number (REN) 3 Bellcore GR-30-CORE Type 1 using Be DTMF ETSI CID (ETS 300-659-1) | out-of-band pulse signalling pedance) on two ports per FXS Blade for emits Blade for emergency / elevator paneous ringing of 288 phones (72 per FXS) ell 202 FSK modulation, ETSI Type 2 | ohones) Blade given REN3 load) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-nook Loop Current Ring Voltage (Sine) Ring Frequency Maximum Ringer Load Caller ID Polarity Reversal / Wink | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F Notes: Balanced ringing only, Enables simult 25-100 Hz Ringer Equivalency Number (REN) 3 Bellcore GR-30-CORE Type 1 using Br DTMF ETSI CID (ETS 300-659-1) | out-of-band pulse signalling' pedance) on two ports per FXS Blade for em XS Blade for emergency / elevator paneous ringing of 288 phones (72 per FXS) ell 202 FSK modulation, ETSI Type 2 neous ringing | ohones) Blade given REN3 load) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-nook Loop Current Ring Voltage (Sine) Ring Frequency Maximum Ringer Load Caller ID Polarity Reversal / Wink | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F Notes: Balanced ringing only, Enables simult 25-100 Hz Ringer Equivalency Number (REN) 3 Bellcore GR-30-CORE Type 1 using Be DTMF ETSI CID (ETS 300-659-1) | out-of-band pulse signalling' pedance) on two ports per FXS Blade for em XS Blade for emergency / elevator paneous ringing of 288 phones (72 per FXS) ell 202 FSK modulation, ETSI Type 2 neous ringing | ohones) Blade given REN3 load) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current Ring Voltage (Sine) Ring Frequency Maximum Ringer Load Caller ID Polarity Reversal / Wink Metering Tones Distinctive Ringing | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F Notes: Balanced ringing only, Enables simult 25-100 Hz Ringer Equivalency Number (REN) 3 Bellcore GR-30-CORE Type 1 using Br DTMF ETSI CID (ETS 300-659-1) Immediate or smooth to prevent erro 12/16 KHz sinusoidal bursts, Genera By frequency (15-100 Hz) and caden. | out-of-band pulse signalling pedance) on two ports per FXS Blade for emits Slade for emergency / elevator paneous ringing of 288 phones (72 per FXS) ell 202 FSK modulation, ETSI Type 2 neous ringing attion on FXS ce patterns | ohones) Blade given REN3 load) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current Ring Voltage (Sine) Ring Frequency Maximum Ringer Load Caller ID Polarity Reversal / Wink Metering Tones Distinctive Ringing | proper installation and grounding. FXS connection via 50-pin CHAMP co. In-band signaling DTMF (TIA 464B), C. Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F. Notes: Balanced ringing only, Enables simult 25-100 Hz Ringer Equivalency Number (REN) 3 Bellcore GR-30-CORE Type 1 using Br DTMF ETSI CID (ETS 300-659-1) Immediate or smooth to prevent erro 12/16 KHz sinusoidal bursts, General | out-of-band pulse signalling pedance) on two ports per FXS Blade for emits Slade for emergency / elevator paneous ringing of 288 phones (72 per FXS) ell 202 FSK modulation, ETSI Type 2 neous ringing attion on FXS ce patterns | ohones) Blade given REN3 load) |
| Temperature Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current Ring Voltage (Sine) Ring Frequency Maximum Ringer Load Caller ID Polarity Reversal / Wink Metering Tones Distinctive Ringing Message Waiting Indication (MWI) | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F Notes: Balanced ringing only, Enables simult 25-100 Hz Ringer Equivalency Number (REN) 3 Bellcore GR-30-CORE Type 1 using Br DTMF ETSI CID (ETS 300-659-1) Immediate or smooth to prevent erro 12/16 KHz sinusoidal bursts, Genera By frequency (15-100 Hz) and caden. | out-of-band pulse signalling pedance) on two ports per FXS Blade for emits Slade for emergency / elevator paneous ringing of 288 phones (72 per FXS) ell 202 FSK modulation, ETSI Type 2 neous ringing attion on FXS ce patterns | ohones) Blade given REN3 load) |
| Over-voltage protection and surge immunity FXS Port Specifications Interface Type FXS Signaling Formats FXS Loop Impedance Off-hook Loop Current Ring Voltage (Sine) Ring Frequency Maximum Ringer Load Caller ID Polarity Reversal / Wink Metering Tones | proper installation and grounding. FXS connection via 50-pin CHAMP co In-band signaling DTMF (TIA 464B), C Up to 1500 ohm (including phone im 25 mA max. on all ports (35 mA max. 54 Vrms (80 Vrms on two ports per F Notes: Balanced ringing only, Enables simult 25-100 Hz Ringer Equivalency Number (REN) 3 Bellcore GR-30-CORE Type 1 using Br DTMF ETSI CID (ETS 300-659-1) Immediate or smooth to prevent erro 12/16 KHz sinusoidal bursts, Genera By frequency (15-100 Hz) and caden DC voltage generation (TIA/EIA-464-E | out-of-band pulse signalling' pedance) on two ports per FXS Blade for em XS Blade for emergency / elevator paneous ringing of 288 phones (72 per FXS) ell 202 FSK modulation, ETSI Type 2 neous ringing attion on FXS ce patterns 3), V23 FSK data, Stutter dial tone | ohones) Blade given REN3 load) |

ABOUT AUDIOCODES

designs, develops and sells advanced Voiceover-IP (VoIP) and converged VoIP and Data networking products and applications to Service Providers and Enterprises. AudioCodes is a VoIP technology market leader, focused on converged VoIP and data communications, and its products are deployed globally in Broadband, Mobile. Enterprise networks and Cable. The Company provides a range of innovative, cost-effective products including Media Gateways, Multi-Service Business Routers, Session Border Controllers (SBC), Residential Gateways, IP Phones, Media Servers, Value Added Applications and Professional Services. AudioCodes' underlying technology, VolPerfectHD™, relies on AudioCodes' leadership in DSP, voice coding and voice processing technologies. AudioCodes' High Definition (HD) VoIP technologies and products provide enhanced intelligibility and a better end user communication experience in Voice communications.

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