# MediaPack<sup>™</sup> 1288

## High Density Analog VoIP Gateway

The AudioCodes MediaPack 1288 is a best-of-breed high-density analog media gateway. It offers a cost-effective solution for organizations transitioning to all-IP that need to integrate large numbers of analog devices (such as legacy phones, fax machines and modems) into their new infrastructure. The MediaPack 1288 enables these organizations to protect the investment made in their analog devices and cabling while enjoying the functional and cost benefit of the move to an all-IP infrastructure.



Fully interoperable with leading softswitches, unified communications (UC) servers and SIP proxies, the MediaPack 1288 is ideal for service providers, hosted UC operators, the hospitality sector and large enterprise campuses.

## 288 FXS Ports | 3U Chassis | Dual Power Supplies | Comprehensive Interoperability



### High resiliency

Call survivability for all analog FXS extensions and for additional external IP phones



## Advanced line capabilities Short and long haul up to 7.5 km, integrated surge protection for FXS



**Emergency phone support** Support for emergency/elevator phones that require higher loop current and increased ring voltage

SBC functionality Integrated SBC capabilities for survivability and connection to SIP trunks



## Enhanced security SRTP on all channels without capacity hit



Fax support Extensive fax support including T.38 version 3

# Caudiocodes

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| Specifications  |   |  |   |                                   |                            | mean                    | apack 1200    |  |  |  |
|---|---|--|---|-----------------------------------|----------------------------|-------------------------|---------------|--|--|--|
| System Capacity   |   |  |   |                                   |                            |                         |               |  |  |  |
| Telephony Capacity  | 288 FXS ports. Four available capacity options: 288, 216, 144 and 72 ports  |  |   |                                   |                            |                         |               |  |  |  |
| SBC Capacity  | 300 SBC sessions, 350 registered users  |  |   |                                   |                            |                         |               |  |  |  |
| Hardware Elements   |   |  |   |                                   |                            |                         |               |  |  |  |
| CPU Module  | Providing the central p   | rocessing unit with two  | 100/1000Base-T (Gigabit) Ether  | net norts (RI-45) a               | nd 1+1 Ethernet port redur | ndancy                  |               |  |  |  |
|   | Providing the central processing unit with two 100/1000Base-T (Gigabit) Ethernet ports (RJ-45) and 1+1 Ethernet port redundancy 4 FXS blades, each blade supports 72 FXS ports  |  |   |                                   |                            |                         |               |  |  |  |
| FXS Blades  | FXS connection via three 50-pin CHAMP connectors per FXS blade  |  |   |                                   |                            |                         |               |  |  |  |
|   | Lifeline support - automatic switching to PSTN via 3 dedicated lifeline interfaces per FXS blade  |  |   |                                   |                            |                         |               |  |  |  |
| Network Protocols   |   |  |   |                                   |                            |                         |               |  |  |  |
| IP Transport  | IPv4, IPv6 for media and control, RTP/RTCP per IETF RFC 3550, RTCP-XR   |  |   |                                   |                            |                         |               |  |  |  |
| Control   | SIP (RFC 3261) over UDP, TCP and TLS (1.2)  |  |   |                                   |                            |                         |               |  |  |  |
| Media   | RTP (RFC 3550), SRTP (RFC 3711), RTCP (RFC 3550), RTCP-XR (RFC 3611)  |  |   |                                   |                            |                         |               |  |  |  |
| Voice Capabilities  | C 169 2004 compliant actor cancellation, packet lacs concerlment, duramic programmable litter buffer silence supression (confect poice generation, DTD solution)  |  |   |                                   |                            |                         |               |  |  |  |
| Voice Over Packet   | G.168-2004 compliant echo cancellation, packet loss concealment, dynamic programmable jitter buffer, silence 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  |  |   |                                   |                            |                         |               |  |  |  |
| Signaling   |   |  |   |                                   |                            |                         |               |  |  |  |
| Message Manipulation  | Ability to add/modify/delete SIP headers and message body using advanced regular expressions (regex)  |  |   |                                   |                            |                         |               |  |  |  |
| Routing Methods<br>Routing Features   | Request URL, IP address, FQDN, ENUM, advanced LDAP, third-party routing control through REST API<br>Least-cost routing, call forking, load balancing, emergency call detection and prioritization   |  |   |                                   |                            |                         |               |  |  |  |
| Management  | Least cost routing, can   | forking, load balancing,   | , emergency can detection and   | 510110281011                      |                            |                         |               |  |  |  |
|   | Web GUI, SSH/Telnet, SNMP v2/v3, INI file, REST API   |  |   |                                   |                            |                         |               |  |  |  |
| OAM&P   | AudioCodes' One Voice Operation Center  |  |   |                                   |                            |                         |               |  |  |  |
| Power   |   |  |   |                                   |                            |                         |               |  |  |  |
| AC Power Specifications   |   |  | 100-240V~, Input Freq   | ency 50/60 Hz, Ma                 | ax. Input Current 10 A     |                         |               |  |  |  |
| DC Power Specifications   |   |  | 40  | -60 VDC, 32A max                  |                            |                         |               |  |  |  |
| Redundant Power Supply  | Dual feed, redundant power supply modules   |  |   |                                   |                            |                         |               |  |  |  |
| Max. Power Consumption  |   | FXS Interfaces   |   | Short Haul (W)                    |                            |                         | Long Haul (W) |  |  |  |
|   |   | 288  |   | 450                               |                            |                         | 950<br>770    |  |  |  |
|   | 144   |  |   | 350                               |                            |                         | 600           |  |  |  |
| Physical  |   |  |   |                                   |                            |                         | 1             |  |  |  |
| Width   | 17.24 inches (438   | Height   |   |                                   | 5.16 inches (131.2 mm)     |                         |               |  |  |  |
|   | mm)<br>17.75 inches (451  | (451   |   |                                   |                            |                         |               |  |  |  |
| Depth   | mm) Weig  |  |   | 21 Kg (fully popula               |                            |                         | system)       |  |  |  |
| Mounting  | 3U, 19-inch rack  |  |   |                                   |                            |                         |               |  |  |  |
| Environment   |   |  |   |                                   |                            |                         |               |  |  |  |
| Temperature   | Operational Temp.: 0 to 40°C (41 to 104°F) Storage Temp.: -40 to 70°C (-40 to 158°F) Humidity: 5 to 90% non-condensing  |  |   |                                   |                            |                         |               |  |  |  |
| Cooling   | Operational lemp.: 0 to   |  |   | Front-to-rear air flow            |                            |                         |               |  |  |  |
|   |   |  |   |                                   |                            |                         |               |  |  |  |
| FXS Port Specifications   | Front-to-rear air flow  |  |   |                                   |                            |                         |               |  |  |  |
| FXS Port Specifications<br>FXS Signaling Formats  | Front-to-rear air flow  | IF (TIA 464B), out-of-bar  | nd pulse signaling  |                                   |                            |                         |               |  |  |  |
|   | Front-to-rear air flow<br>In-band signaling DTM   | IF (TIA 464B), out-of-bar<br>ding phone impedance)   |   |                                   |                            |                         |               |  |  |  |
| FXS Signaling Formats   | Front-to-rear air flow<br>In-band signaling DTM<br>Up to 1500 ohm (include  | ding phone impedance)  |   | icy/elevator phone                | (2)                        |                         |               |  |  |  |
| FXS Signaling Formats<br>FXS Loop Impedance<br>Off-hook Loop Current  | Front-to-rear air flow<br>In-band signaling DTM<br>Up to 1500 ohm (includ<br>25 mA max. on all port<br>- 54Vrms Sinewave bal  | ding phone impedance)<br>ts (35 mA max. on two p<br>lanced ringing of up to 2  | ports per FXS blade for emerge<br>288 phones simultaneously   |                                   | s)                         |                         |               |  |  |  |
| FXS Signaling Formats<br>FXS Loop Impedance   | Front-to-rear air flow<br>In-band signaling DTM<br>Up to 1500 ohm (includ<br>25 mA max. on all port<br>- 54Vrms Sinewave bal<br>- 85Vrms/20Hz – Trape   | ding phone impedance)<br>ts (35 mA max. on two p<br>lanced ringing of up to a<br>ezoid waveform ringing  | ports per FXS blade for emerge<br>288 phones simultaneously<br>of up to 6 phones per each 12  | ports segment                     | (2                         |                         |               |  |  |  |
| FXS Signaling Formats<br>FXS Loop Impedance<br>Off-hook Loop Current<br>Ring Voltage  | Front-to-rear air flow<br>In-band signaling DTM<br>Up to 1500 ohm (includ<br>25 mA max. on all port<br>- 54Vrms Sinewave bal<br>- 85Vrms/20Hz – Trape<br>Notes: Balanced ringing on   | ding phone impedance)<br>ts (35 mA max. on two p<br>lanced ringing of up to a<br>ezoid waveform ringing  | ports per FXS blade for emerge<br>288 phones simultaneously   | ports segment                     | (2                         |                         |               |  |  |  |
| FXS Signaling Formats<br>FXS Loop Impedance<br>Off-hook Loop Current<br>Ring Voltage<br>Ring Frequency                        | Front-to-rear air flow<br>In-band signaling DTM<br>Up to 1500 ohm (includ<br>25 mA max. on all port<br>- 54Vrms Sinewave bal<br>- 85Vrms/20Hz – Trape<br>Notes: Balanced ringing on<br>25-100 Hz  | ding phone impedance)<br>ts (35 mA max. on two p<br>lanced ringing of up to a<br>ezoid waveform ringing<br>ly, enables simultaneous ring                 | ports per FXS blade for emerge<br>288 phones simultaneously<br>of up to 6 phones per each 12  | ports segment                     | (5)                        |                         |               |  |  |  |
| FXS Signaling Formats<br>FXS Loop Impedance<br>Off-hook Loop Current<br>Ring Voltage  | Front-to-rear air flow<br>In-band signaling DTM<br>Up to 1500 ohm (includ<br>25 mA max. on all port<br>- 54Vrms Sinewave bal<br>- 85Vrms/20Hz – Trape<br>Notes: Balanced ringing on   | ding phone impedance)<br>ts (35 mA max. on two p<br>lanced ringing of up to a<br>ezoid waveform ringing<br>ly, enables simultaneous ring                 | ports per FXS blade for emerge<br>288 phones simultaneously<br>of up to 6 phones per each 12  | ports segment                     | (2                         |                         |               |  |  |  |
| FXS Signaling Formats<br>FXS Loop Impedance<br>Off-hook Loop Current<br>Ring Voltage<br>Ring Frequency                        | Front-to-rear air flow<br>In-band signaling DTM<br>Up to 1500 ohm (inclue<br>25 mA max. on all port<br>- 54Vrms Sinewave bal<br>- 85Vrms/20Hz – Trape<br>Notes: Balanced ringing on<br>25-100 Hz<br>Ringer Equivalency Nut                          | ding phone impedance)<br>ts (35 mA max. on two p<br>lanced ringing of up to a<br>ezoid waveform ringing<br>ly, enables simultaneous ring<br>mber (REN) 3 | ports per FXS blade for emerge<br>288 phones simultaneously<br>of up to 6 phones per each 12  | ports segment<br>given REN3 load) |                            | DTMF ETSI CID (ETS 300- | 659-1)        |  |  |  |
| FXS Signaling Formats<br>FXS Loop Impedance<br>Off-hook Loop Current<br>Ring Voltage<br>Ring Frequency<br>Maximum Ringer Load | Front-to-rear air flow<br>In-band signaling DTM<br>Up to 1500 ohm (includ<br>25 mA max. on all port<br>- 54Vrms Sinewave bal<br>- 85Vrms/20Hz – Trape<br>Notes: Balanced ringing on<br>25-100 Hz<br>Ringer Equivalency Nut<br>Bellcore GR-30-CORE 1 | ding phone impedance)<br>ts (35 mA max. on two p<br>lanced ringing of up to a<br>ezoid waveform ringing<br>ly, enables simultaneous ring<br>mber (REN) 3 | ports per FXS blade for emerge<br>288 phones simultaneously<br>of up to 6 phones per each 12<br>ging of 288 phones (72 per FXS blade<br>K modulation, ETSI Type 1, NTT, | ports segment<br>given REN3 load) |                            | DTMF ETSI CID (ETS 300- | 659-1)        |  |  |  |



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