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
Specifications

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 processing unit with two 100/1000Base-T (Gigabit) Ethernet ports (RJ-45) and 1+1 Ethernet port redundancy
FXS Blades 4 FXS blades, each blade supports 72 FXS ports
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
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
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 Request URL, IP address, FQDN, ENUM, advanced LDAP, third-party routing control through REST API
Routing Features Least-cost routing, call forking, load balancing, emergency call detection and prioritization

Management
OAM&P Web GUI, SSH/Telnet, SNMP v2/v3, INI file, REST API
AudioCodes’ One Voice Operation Center

Power
AC Power Specifications 100-240V~, Input Frequency 50/60 Hz, Max. Input Current 10 A
DC Power Specifications 40-60 VDC, 32A max
Redundant Power Supply Dual feed, redundant power supply modules

Physical
Max. Power Consumption
<table>
<thead>
<tr>
<th>FXS Interfaces</th>
<th>Short Haul (W)</th>
<th>Long Haul (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>288</td>
<td>450</td>
<td>950</td>
</tr>
<tr>
<td>216</td>
<td>400</td>
<td>770</td>
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<tr>
<td>144</td>
<td>350</td>
<td>600</td>
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Width 17.24 inches (438 mm)
Height 5.16 inches (131.2 mm)
Depth 17.75 inches (451 mm)
Weight 21 Kg (fully populated 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 Front-to-rear air flow

FXS Port Specifications
FXS Signaling Formats In-band signaling DTMF (TIA 4648), out-of-band pulse signaling
FXS Loop Impedance Up to 1500 ohm (including phone impedance)
Off-hook Loop Current 25 mA max. on all ports (35 mA max. on two ports per FXS blade for emergency/elevator phones)
Ring Voltage - 54Vrms Sinewave balanced ringing of up to 288 phones simultaneously
- 85Vrms/20Hz – Trapezoid waveform ringing of up to 6 phones per each 12 ports segment
Notes: Balanced ringing only, enables simultaneous ringing of 288 phones (72 per FXS blade given REN3 load)
Ring Frequency 25–100 Hz
Maximum Ringer Load Ringer Equivalency Number (REN) 3
Caller ID Bellcore GR-30-CORE Type 1 using Bell 202 FSK modulation, ETSI Type 1, NTT, Denmark, India, Brazil, United Kingdom and DTMF ETSI CID (ETS 300-659-1)
Distinctive Ringing By frequency (15-100 Hz) and cadence patterns
Message Waiting Indication (MWI) High and low DC voltage generation (TIA/EIA-464-B), V23 FSK data, stutter dial tone