

### IP Paging Adapter for Traditional Analog Amplifiers

Seamlessly connect legacy paging systems to IP environments with the 8301 IP Paging Adapter. The 8301 is armed with multicasting and scheduling capabilities, making it a valuable resource in hybrid and IP environments.



The 8301 IP Paging Adapter is a SIP endpoint that integrates existing traditional paging infrastructure into a VoIP environment. It emulates a page port similar to what is found on a legacy PBX to connect directly to an analog amplifier, offering a simple and easy interface to a VoIP phone system as a SIP extension and multicast endpoint.

As a 3rd-party, SIP-compliant device, the 8301 is compatible with most leading UC systems. While it is often used to bridge IP to traditional amplifiers, the 8301 also serves to scale IP environments, acting as a multicast sender to other Algo IP endpoints grouped into ones. With wideband audio and an isolated balanced line output, the 8301 can deliver clear, crisp audio to be played over both IP and analog speakers.

A common use for the 8301 is as an advanced scheduler, which can function in both traditional and IP environments. The 8301 can be configured to set timers for bells, automated announcements, or any other tone or usage. With 1 GB of internal memory, any selection of sound can be played by uploading the desired audio file.

The 8301 is easily managed directly via web interface. Paired with an Algo device management tool, the 8301 can assist in monitoring and managing a large number of devices across a single or multiple networks.

#### FEATURES

- Isolated and balanced line output to eliminate hum / noise to amplifier.
- Wideband HD audio (G.722 voice codec) for high intelligibility speech.
- Secure SIP using TLS and SRTP.
- Configurable via user-friendly web interface or auto-provisioning.
- Customizable audio files for emergency notification and alerting.
- Configure up to 50 page zones.
- PoE powered (IEEE 802.3af).
- Dedicated audio/music input (3.5mm jack).

#### APPLICATIONS

- Deliver emergency alerting, loud ringing, bell scheduling, and music over legacy technology by integrating a VoIP phone system to traditional analog amplifiers.
- Use hybrid voice paging system by integrating analog speaker infrastructure and multicasting to Algo IP endpoints (speakers, visual alerters, etc.) and to multicast supported IP phones.
- Provide notification alerting for emergency, safety, and security events.
- Use scheduler for bells, tones, and automated announcements for school, retail, and healthcare facilities.

| POWER   |   |
|---|---|
| POWER INPUT   | PoE (IEEE 802.3af Class 0) 48V, 12.95W  |
| MAX POWER   | 4W  |
| IDLE POWER  | Nominal 2W  |
| SIP   |   |
| SIP EXTENSIONS  | <ul style="list-style-type: none"> <li>• 50 Page (Capable of hands-free talkback when appropriate speaker &amp; microphone connected)</li> <li>• 10 Emergency Alert</li> <li>• 10 Ring</li> </ul> |
| SIP SIGNALLING/<br>TRANSPORT PROTOCOLS  | UDP, TCP, RTP   |
| SECURITY  | TLS, SRTP, Mutual Authentication  |
| AUDIO CODECS  | G.711 u-law, G.711 A-law, G.722 Wideband  |
| MULTICAST & THIRD-PARTY COMPATIBILITY   |   |
| RTP MULTICAST (SEND OR RECEIVE 50 ZONES)<br>RESTFUL API<br>POLY GROUP PAGE<br>SINGLEWIRE INFORMACAST (ADDITIONAL LICENSE REQUIRED)<br>SYN-APPS REVOLUTION |   |
| AUDIO CODECS  | G.711 u-law, G.711 A-law, G.722 Wideband, Opus Fullband   |
| CONFIGURATION & PROVISIONING  |   |
| CONFIGURATION   | Web interface or provisioning server  |
| WEB INTERFACE   | HTTP, HTTPS   |
| PROVISIONING  | TFTP, FTP, HTTP, HTTPS<br>DHCP Options 66, 150, 160<br>Reboot via SIP 'check-sync'  |
| SUPERVISION   | Compatible with Algo Device Management Platform, Algo 8300 Controller, any third-party SNMP monitoring software, and RTCP.  |
| NETWORKING  |   |
| NETWORKING  | IPv4, IPv6, DHCP, VLAN, MDNS  |
| LINK LAYER  | LLDP, CDP   |
| QOS   | DSCP  |
| NAT   | STUN, TURN, CRLF Keep Alive, SIP Outbound   |
| ADDRESS RESOLUTION  | DNS, SRV Record   |
| REDUNDANCY  | Secondary & tertiary SIP server   |
| TIME  | NTP Server (up to four)   |
| AUDIO   |   |
| AUDIO MEMORY & FORMAT   | 1 GByte audio storage for WAV or MP3 files  |
| AUDIO CONTROLS  | Volume, AGC, Latency, LF Cut  |
| ANTI-FEEDBACK DELAY   | Cache to memory and release   |
| AUDIO DELAY   | Programmable 1-1000 ms synchronization delay  |
| INPUT/OUTPUT  |   |
| FEMALE RJ45 JACK  |   |
| AUX IN  | 3.5mm jack for analog line level input for music input. Non-isolated.   |
| AUX OUT   | 3.5mm jack for analog line level output for compatible PC speakers or headset. Non-isolated.  |
| LINE IN XLR-MINI  | Balanced and isolated audio (Page or music) input can be configured for pass-through to Line Out (when paging is idle), or for broadcast via multicast.   |
| LINE OUT XLR-MINI   | Balanced and isolated audio output to external amplifier. Locking mini-XLR female to standard XLR male cable available. Output level defined using web interface.                                 |
| TERMINAL BLOCK LINE IN  | Balanced and isolated wire pair input parallel to XLR-Mini Line In (polarity independent).  |
| TERMINAL BLOCK LINE OUT   | Balanced and isolated wire pair output to external amplifier. Parallel to XLR-Mini Line Out (polarity independent).   |

Normally open or normally closed dry contact supervision. Compatible with Algo 1202 Call Button, 1203 Call Switch, 1204 Volume Control, 1205 Audio Interface or EOL resistor termination

**RELAY OUTPUT** Max 30 V 50 mA (normally open)

Relay Input: normally open or normally closed dry contact supervision. Algo 1202 Call Button, Algo 1203 Call Switch, EOL resistor termination.

### ENVIRONMENTAL & MECHANICAL

**ENVIRONMENTAL** 0 to + 40° C (32 to 104° F); 10-95% Relative Humidity, non-condensing. Dry indoor locations only.

**DIMENSIONS (PRODUCT)** 6.75" x 4.3" x 1.18" (17.2 cm x 10.9 cm x 3.0 cm)

**WEIGHT (PRODUCT)** 0.95 lbs (0.4 kg)

**WEIGHT (SHIPPING)** 1.5 lbs (0.7 kg)

**MOUNTING** Snap mounting bracket included

### COMPLIANCE

RoHS, CE, FCC Class A, CISPR 22 Class A, CISPR 24, CSA/UL (USA & Canada), EN60950

### FIRMWARE

These specifications refer to the Algo 8301 running firmware 5.2 and above.

FRONT



TOP ANGLE



### ORDERING CODES:

- 8301** IP Paging Adapter and Scheduler
- 8301-IC** IP Paging Adapter and Scheduler InformaCast

### COMPATIBLE ACCESSORIES:

- 1202** Customer/Emergency Assistance Button
- 1203** Wall Switch Single Gang Blue LED



1202



1203



Balanced Audio Cables:  
2504 Output XLR-Mini Female to XLR Male  
2505 Input XLR-Mini Male to XLR Female  
Other cables available on request

