# IP Paging Adapter for Traditional Analog Amplifiers

The 8301 is a PoE IP Paging Adapter for integrating existing and traditional paging solutions into a VoIP environment, whether premise or cloud. Features include G.722 wideband support with isolated and balanced line output for optimum clarity and intelligibility without hum or noise.

Multicast capability allows scalability for any number of amplifiers  as well as integration with Algo IP speakers in zoned and large scale applications. Each 8301 can be configured for up to 50 page zones with more zoning capability when multiple 8301s are deployed.

To the network side, the 8301 is a SIP endpoint for easy integration with an IP telephone system and easily configured using the intuitive web interface or provisioning capabilities. On the paging side, the 8301 provides balanced audio output using both an XLR connector and terminal block for easy connection to an amplifier, along with a dry contact closure if required by the amplifier.

Further speech enhancement is provided by automatic level control, choice of frequency masks, and optional speech compression. Output level is compatible with consumer, commercial, and pro-audio amplifiers requiring either -10 dBm, 0 dBm, or +4 dBu line level.

An audio input (also balanced and isolated to prevent equipment ground loops) can be used for auxiliary input or insertion of the 8301 between existing equipment. This allows IP based paging or emergency notification to take control of the amplifier as necessary.

The 8301 also includes a scheduler for automated and precise play of WAV files suitable for school bells and public announcements. Messages may also be triggered manually by placing a SIP call or pressing an optional external call button.

# ALGO

## Specifications:

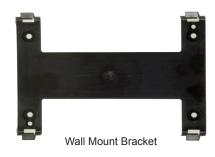| | |
|---|---|
| **SIP:** | 50 Page Extensions<br>10 Alerting Extensions |
| **Multicast:** | Receive or transmit |
| **Codec Support:** | G.711 A-law, G.711 u-law, G.722, Polycom Group Page. (other codec support available on request). |
| **Processor:** | Linux OS<br>ARM Cortex-A8 32-Bit RISC Processor |
| **AUX Input:** | 3.5mm jack for analog music input |
| **AUX Output:** | 3.5mm jack for headset or PC speakers |
| **Line Input:** | Female mini-XLR 10 kOhm balanced maximum level +4 dBu. Transformer isolated internally. |
| **Line Output:** | Low impedance balanced output. Line level -10 dBm / 0 dBm / +4 dBu. Transformer isolated internally. Male mini-XLR connector and pluggable terminal block. Frequency response 100-7000 Hz +/- 3dB. |
| **Audio Memory:** | 1 GByte |
| **WAV Files:** | Customizable. Includes chime, gong, bell, warble, barking dogs. |
| **Speech Processing:** | ALC, filtering, compression |
| **Audio Delay:** | Programmable 1-1000 ms synchronization delay |
| **Page Mode:** | Live or cache and release. |
| **Page Zones:** | 50 Zones per 8301 based on received multicast IP Address, SIP extension dialed, or keypad selection. |
| **Scheduler:** | Play specific WAV files at specific times on specific days/dates to specific zones based on selected NTP server time. |
| **Relay Output:** | Normally open or normally closed. Max rating 30 V 50 mA. |
| **Relay Input:** | Normally open or normally closed dry contact supervision. Algo 1202 Call Button, Algo 1203 Switch, EOL resistor termination. |
| **Discovery:** | Cisco Discovery Protocol |
| **Configuration:** | Web interface (HTTP or HTTPS) or auto-provisioning server. |
| **Provisioning:** | TFTP, FTP, HTTP, HTTPS |
| **Supervision:** | SNMP |
| **NAT:** | STUN, CRLF Keep Alive |
| **Power Requirement:** | POE IEEE 802.3af Class 0 Nominal 2W Maximum 3.9W |
| **Environmental:** | +32 to +122 deg F (0 to +50 deg C); Suitable for dry indoor environments only. |
| **Dimensions:** | 6.5" x 4.3" x 1.3" (16.5 cm x 10.9 cm x 3.3 cm) |
| **Mounting:** | Wall mountable or tabletop |
| **Weight:** | 2.2 lb (1.0 kg) |

Front View

Rear View

Wall Mount Bracket

## Order Code:

**8301**   Paging Adapter with Wall Mount Bracket

## Optional Accessories:

1202    1203

2504 Output XLR-Mini Female to XLR Male
2505 Input XLR-Mini Male to XLR Female
Other cables available on request

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# ALGO
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