

## ALGO 8301

# ALGO 8301 IP Paging Adapter & Scheduler User Manual

**Model:** 8301

**Brand:** ALGO

## INTRODUCTION

The ALGO 8301 is a versatile SIP paging adapter designed to bridge Voice over IP (VoIP) communication systems with traditional analog paging infrastructure. It functions as a SIP extension or multicast endpoint, facilitating seamless integration with existing analog amplifiers and enhancing IP environments. The device supports wideband audio for clear voice transmission and includes scheduling capabilities for automated announcements and tones.

## PRODUCT OVERVIEW

The ALGO 8301 unit features various ports and indicators for connectivity and status monitoring, designed for efficient integration into your communication system.



This image displays the ALGO 8301 IP Paging Adapter, a compact silver and black device. The top surface features the 'ALGO' logo. The front panel includes a reset button, an Ethernet port, LED indicators for SIP, MCAST, INPUT, and OUTPUT, and 3.5mm auxiliary input (blue) and output (green) jacks.



This image shows the rear panel of the ALGO 8301, highlighting its connectivity options. From left to right, it features a 'LINE IN' XLR connector, a 'LINE OUT' XLR connector, and two terminal blocks labeled 'RELAY / SW INPUT', 'RELAY OUTPUT', 'LINE INPUT', and 'LINE OUTPUT' for various audio and control connections. The model number '8301' is also visible.

## SETUP

### Package Contents

- ALGO 8301 IP Paging Adapter & Scheduler
- Mounting Hardware (if included)
- Quick Start Guide

### Physical Installation

1. **Mounting:** The device supports wall mounting. Secure the unit in a suitable location using appropriate hardware.
2. **Network Connection:** Connect an Ethernet cable from your network switch (preferably Power over Ethernet (PoE) enabled) to the RJ45 port on the front of the 8301. The device is PoE capable, eliminating the need for a separate power supply if your switch provides PoE.
3. **Audio Connections:**
  - **Analog Amplifier Integration:** Connect the 'LINE OUT' port of the 8301 to the audio input of your analog amplifier using an XLR cable.
  - **Auxiliary Audio:** Use the 'AUX IN' (blue) and 'AUX OUT' (green) 3.5mm jacks for additional audio input/output as needed.
4. **Relay Connections:** Utilize the terminal blocks on the rear for relay/switch input and output connections as per your system requirements.

Your browser does not support the video tag.

This video illustrates the physical connection process for the ALGO 8301. It shows a user connecting wires to the green terminal blocks on the rear of the device and plugging an Ethernet cable into the front RJ45 port. The video highlights the ease of integrating the adapter into existing systems.

## OPERATING INSTRUCTIONS

### Initial Configuration

Access the device's web interface by entering its IP address into a web browser. The IP address can typically be discovered via network scanning tools or by checking your DHCP server. Log in using the default credentials (refer to the Quick Start Guide for details).

### SIP Registration

Configure the 8301 as a SIP extension within your VoIP telephone system. Enter the SIP server address, user ID, and password in the device's web interface.

## Multicast Paging

For IP speaker integration, configure multicast zones and addresses within the 8301's settings. The device can act as a multicast sender to Algo IP endpoints, extending communication reach.

## Scheduling

Utilize the built-in scheduler to program bells, announcements, and tones. This feature allows for automated playback at specified times, enhancing operational efficiency.

## Audio Settings

Adjust audio input/output levels and other sound parameters via the web interface to ensure optimal clarity and volume for paging and announcements.

## MAINTENANCE

- **Firmware Updates:** Regularly check the ALGO website for firmware updates to ensure optimal performance and access to new features. Follow the provided instructions for safe firmware installation.
- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.
- **Environmental Conditions:** Ensure the device is operated within its specified temperature and humidity ranges (refer to the Specifications section for details).

## TROUBLESHOOTING

### No Power / No LED Indicators

- Verify the Ethernet cable is securely connected.
- Ensure the network switch port is providing Power over Ethernet (PoE).
- If using an external power supply (not included with PoE models), ensure it is correctly connected and functional.

### No Paging Audio

- Check all audio cable connections (LINE OUT to amplifier, AUX OUT to speakers).
- Verify the amplifier is powered on and configured correctly.
- Confirm SIP registration status via the device's web interface.
- Check audio levels in the 8301's web interface.

### SIP Registration Failure

- Confirm network connectivity to the SIP server.
- Verify SIP credentials (user ID, password, server address) are correctly entered.
- Check firewall settings on your network to ensure SIP traffic is allowed.

### Scheduled Events Not Triggering

- Ensure the device's internal clock is synchronized (e.g., via NTP).
- Verify schedule configurations in the web interface are correct and enabled.

## SPECIFICATIONS

| Feature               | Detail   |
|-----------------------|--|
| Model                 | 8301   |
| Brand                 | ALGO   |
| Connectivity          | SIP (VoIP), Multicast                          |
| Audio Output          | Balanced Line Out (XLR), Auxiliary Out (3.5mm) |
| Audio Input           | Line In (XLR), Auxiliary In (3.5mm)            |
| Power                 | Power over Ethernet (PoE)                      |
| Dimensions            | 12 x 5 x 12 inches                             |
| Weight                | 1.46 Pounds                                    |
| Max Supply Voltage    | 57 Volts (DC)                                  |
| Mounting Type         | Wall Mount                                     |
| Operating Temperature | Up to 60 Degrees Celsius                       |

*Note: For a complete list of specifications, please refer to the official ALGO product page or datasheet.*



## WARRANTY AND SUPPORT


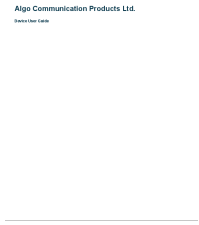


ALGO products typically come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official ALGO website.

For technical support, product registration, or additional resources, please visit the ALGO support portal or contact their customer service department.

[Visit ALGO Official Website](#)

### Related Documents - 8301

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|---|--|
|  | <p><a href="#">ALGO 8301 &amp; 8373 Paging Adapter Amplifier Integration Guide</a></p> <p>This guide from ALGO Solutions details the integration of the 8301 and 8373 Paging Adapters with various analog amplifiers. It provides essential wiring diagrams and configuration settings for seamless audio system setup, covering numerous amplifier brands.</p>  |
|  | <p><a href="#">Algo 8301 &amp; 8373 Paging Adapter Amplifier Integration Guide</a></p> <p>This guide details the integration of Algo's 8301 and 8373 Paging Adapters with a wide range of analog amplifiers. It provides essential information on hardware interfaces, setup configurations, and wiring diagrams to ensure seamless audio system integration in Unified Communications environments.</p> |

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|     | <p><a href="#">Algo 8305 Multi-Interface IP Paging Adapter Quick Start Guide</a></p> <p>This Quick Start Guide provides essential information for setting up and configuring the Algo 8305 Multi-Interface IP Paging Adapter. Learn how to connect legacy analog systems to VoIP networks using this SIP-compliant, PoE-powered device.</p>                     |
|    | <p><a href="#">Algo 8190 IP Speaker-Clock User Guide</a></p> <p>Comprehensive user guide for the Algo 8190 IP Speaker-Clock, detailing its features, setup, installation, configuration, and advanced settings for voice paging, alerting, and communication systems.</p>   |
|   | <p><a href="#">Algo 8190S IP Speaker Clock &amp; Visual Alerter User Guide</a></p> <p>Comprehensive user guide for the Algo 8190S IP Speaker, Clock, and Visual Alerter. Details setup, installation, web interface access, and configuration for SIP paging, multicast, emergency alerts, and system management.</p>   |
|  | <p><a href="#">Singlewire InformaCast Guide: Testing and Configuration for Algo IP Endpoints</a></p> <p>This guide provides comprehensive instructions for testing and configuring Algo IP Speakers, Paging Adapters, and Visual Alerters with Singlewire InformaCast. Learn about device registration, notification profile creation, and troubleshooting.</p> |