

ALGO

Communication Solutions



ThinkTel SIP Trunking and Algo 8301 Paging Adapter – Install Guide

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Overview

Welcome to Algo 8301 paging adapter provisioning guide. This document covers the basic steps required to activate your new Algo 8301 paging adapter with a single ThinkTel SIP trunk.

It is also important to mention that the Algo 8301 can be configured in the same way on any Hosted PBX with an extension as apposed to a single SIP trunk. The configuration steps are the same.

The 8301 IP paging adapter emulates a page port, similar to what is found on a legacy PBX or key system. The adapter connects directly to a traditional analog amplifier, thereby offering a simple and easy interface to a VoIP phone system as a SIP extension and multicast endpoint.

The line output of the 8301 IP paging adapter provides a dry audio output for any amplifier with input impedance between 600 Ohm and 10 kOhm, where the line output of the paging adapter can be defined to match the input specification of the amplifier. This means most amplifiers are supported by the 8301. Either XLR connector or terminal block is available from the 8301 for easy connection to an amplifier. A dry contact closure to activate the amplifier is also available, if required.

Requirements

Before you start

1. The installer will require the configuration credentials.
 - a. Username: for the HPBX extension or SIP trunk.
 - b. Password: for the HPBX extension or SIP trunk.
 - c. SIP Domain Name:
 - i. HPBX: This would be the provisioning URL.
 - ii. SIP Trunk: This would be obtained in U-control under the individual line info.
2. Download the latest device firmware from the Algo support site:
 - a. <https://www.algosolutions.com/8301-firmware-download/>
3. Download the Algo user guide from the link below:
 - a. <https://www.algosolutions.com/user-guide-index/>

Configuration

Obtaining the management IP

Connect the Algo 8301 to power or a POE switch port to power the paging adapter. The blue lights on the front will remain on until boot up is completed – about 30 seconds.

After boot up, the blue lights on the front will turn off and the adapter will have obtained an IP address. If there is no DHCP server the 8301 will default to the static IP address **192.168.1.111**.

Press the reset switch (RST) to hear the IP address over the analog outputs (e.g. headset can be connected to the green output port). The IP address may also be discovered by downloading the Algo locator tool to find Algo devices on your network: www.algosolutions.com/locator

Enter the IP address (e.g **192.168.1.111**) into a browser such as Chrome, Firefox or Edge. The web interface should be visible, and the default password will be **algo** in lower case letters.

Basic Settings Tab - SIP

SIP Server information and Credentials should be obtained from your telephone system administrator or hosted account provider. After saving the settings, see the Status tab to confirm the registration was successful.

The following information can be obtained from the customers provisioned line that will be used for the paging adapter. See below:

Individual Line Information	
Account	[REDACTED]
Number	[REDACTED]
Type	Individual Line
Permanent Call Forwarding	False
Locale	English (Canada)
Second Locale	None
Label	
Additional Label	Leduc Algo 8101
SIP Domain Name	edm.sub.tprm.ca
SIP Password	Lookup

ThinkTel U-control lookup for individual lines	
SIP Domain (Proxy Server):	edm.sub.tprm.ca
SIP Extension:	58 [REDACTED]
Authenticated ID:	58 [REDACTED]
Authenticated Password:	[REDACTED]
Display Name (Optional):	Overhead Paging

The screenshot shows the SIP Settings configuration page. The 'SIP' tab is selected. The configuration includes:

- SIP Domain (Proxy Server): edm.sub.tprm.ca
- Ring/Alert Mode: None
- Page Extension: 58
- Authentication ID: 58
- Authentication Password: Lookup
- Display Name (Optional): Paging

 A 'Save' button is located at the bottom right of the configuration area.

After the changes have been made in the SIP tab, select the Save button. The paging adapter will reboot while the changes are applied and an attempt to register is initiated. Once the paging adapter is back up access the device web interface, the installer will be transported to the device Status page.

Confirm in the SIP Registration line **Successful** and the (extension) is listed, see below for more information. Once the successful registration of the device is confirmed, the installer can navigate to other menus and tabs for customization of the settings.

[Status](#) | [Basic Settings](#) | [Additional Features](#) | [Scheduler](#) | [Advanced Settings](#) | [System](#) | [Logout](#)

Device Status

Welcome to the Algo 8301 Paging Adapter & Scheduler Control Panel

Setting up your Paging Adapter & Scheduler:

Step 1: Configure your Paging Adapter & Scheduler
 Log in with the default password and use the Basic Settings pages to set up the basic information.

Step 2: Check network settings (Optional)
 Use the Network page under the Advanced Settings tab to change network settings. The default setting for the device is to obtain its IP address from a DHCP server. Contact your Network System administrator if you plan to assign a static IP address, Mask, and Gateway to the device.

Step 3: Secure your Paging Adapter & Scheduler (Optional)
 Use the Admin page under the Advanced Settings tab to change the administrator password.
 ⚠️ Changing the password is extremely important if the device is directly connected to a public network.

Step 4: Register your Paging Adapter & Scheduler (Optional)
 Please register your product using the link below:
<http://www.algosolutions.com/register>
 Registration ensures your access to the latest upgrades to this product and important service notices.

Status			
Device Name	pagingadapter		
SIP Registration	Page	Successful	(Extension 30 [REDACTED])
Call Status	Idle		
Proxy Status	Single proxy mode		
Security	TLS	Disabled	
	SRTSP	Disabled	
Provisioning Status	None found		
MAC	00:22:ee:09:85:b4		
IP	192.168.102.239		
Netmask	255.255.255.0		
Gateway	192.168.102.1		
Date / Time	Wed May 19 17:07:03 UTC 2021		
Next Scheduled Event	No Events Scheduled		
Multicast Mode	Disabled		
Volume	Page Volume: 10 (0dB)		
Relay Input Status	Disabled		

Advanced Settings Tab - Time

Navigate to the Time Tab, it is important to set the time for the paging adapter. The reason being if the ThinkTel support staff analyze the device logs, and the time was not set to the correct time zone the logs will not have the correct time and makes it more difficult to trouble shoot any issue using the device logs.

Use the dropdown and select the correct time zone for the customer. Select the save button to record the changes that have been made for the time zone. Give it a couple minutes for the changes to take effect and the device to update and reflect the new time.

[Status](#) | [Basic Settings](#) | [Additional Features](#) | [Scheduler](#) | [Advanced Settings](#) | [System](#) | [Logout](#)

[Network](#) | [Admin](#) | [Users](#) | [Time](#) | [Provisioning](#) | [File Manager](#) | [Advanced Audio](#) | [Advanced SIP](#) | [Advanced Multicast](#)

Time Settings

General

Timezone:

NTP Time Server 1:

NTP Time Server 2:

NTP Time Server 3:

NTP Time Server 4:

NTP Time Server Source: Use DHCP Option 42 Ignore DHCP Option 42
By default, if an NTP Server address is provided via DHCP Option 42, this will be used instead of the options above.

Device Date/Time: Wed May 19 17:08:10 2021 [Sync with browser](#)
Manual time and date are intended for testing purpose only. Time will be lost upon power down.

For a more in-depth view of the Algo 8301 paging adapter please consult the user guide.