

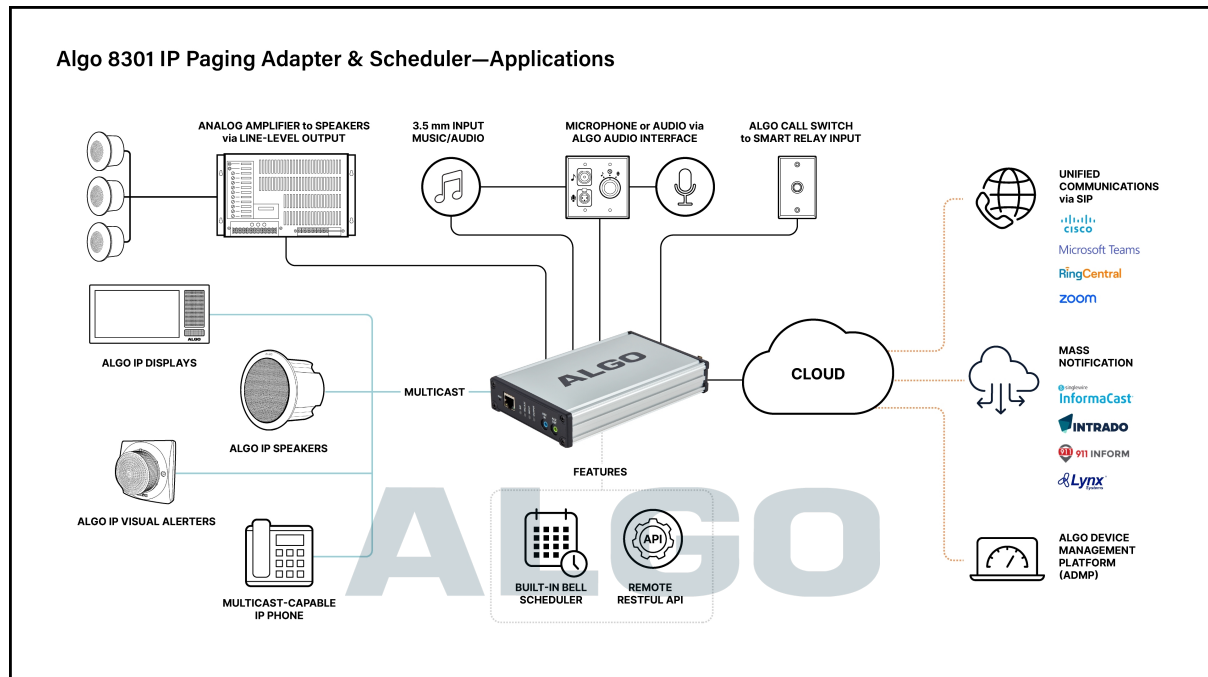
Algo Communication Products Ltd.

Device User Guide

Algo Paging Adapter & Amplifier

Integration Guide

Algo IP Paging Adapters provide balanced line outputs and connect directly with legacy amplifiers. Acting as a bridge between the VoIP system and legacy PA infrastructure, paging adapters enable organizations to broadcast voice paging across establishments of any size.



Algo IP paging adapters are designed to drive a traditional amplifier and maintain the integrity of the zoning used with your legacy infrastructure while replacing your legacy zone controller and other equipment to simplify your overall deployment.

This guide outlines how to connect Algo paging adapters to various legacy amplifiers and communication systems. Please note that models not explicitly mentioned in this guide are not necessarily incompatible with Algo paging adapters. If the model you are working with is not documented here, please contact support@algosolutions.com.

Algo Paging Adapters

All Algo IP Paging adapters have an audio output designed to emulate a page port on a legacy PBX. They also isolate and balance audio output and prevent additional humming or noise. There are currently four Algo IP paging adapters available:

- [8301 IP Paging Adapter & Scheduler](#)
- [8305 Multi-Interface IP Paging Adapter](#)
- [8373 IP Zone Paging Adapter](#)
- [8312 Expanded IP Paging Adapter](#)

	8301	8305
When to Choose	When working to integrate legacy paging amplifiers into an IP-based system. This is the go-to adapter for most setups and needs.	When working to integrate legacy communication systems (specifically ones that have FXS and need to connect to a telephone) to an IP-based system.
Multicast	Yes	Yes
PoE	Yes	Yes
SIP Compliant	Yes	Yes
Scheduler	Yes	Yes

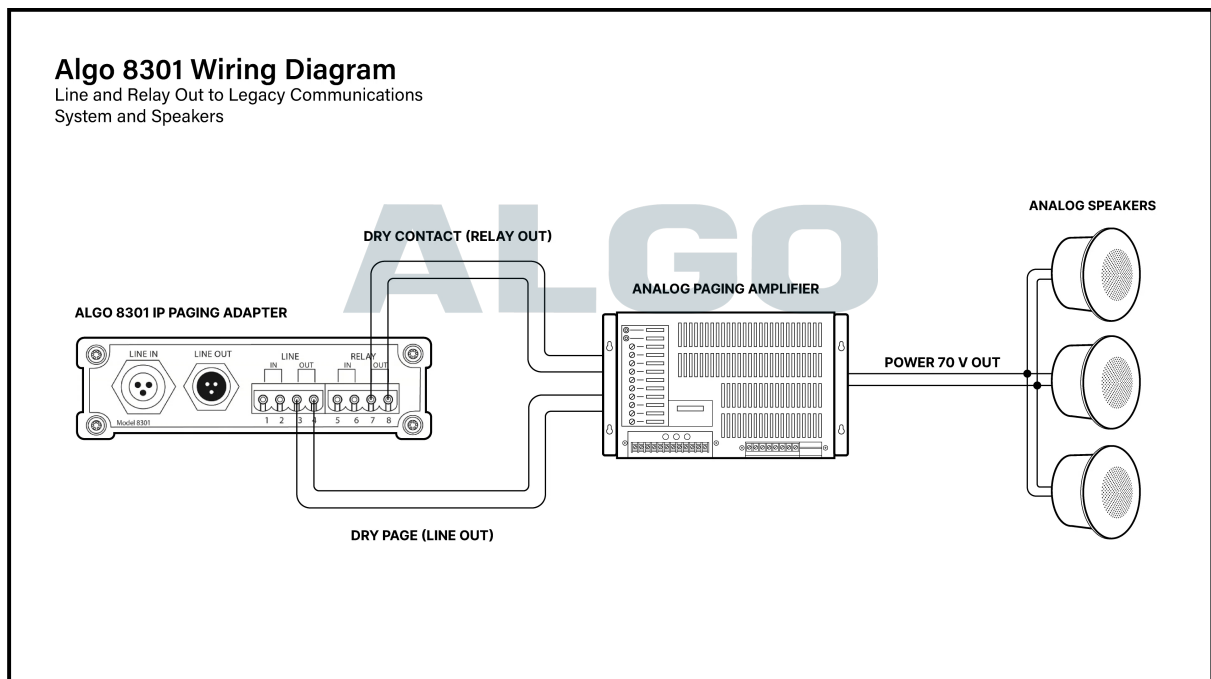
	8301	8305
Ports	• Aux In • Aux Out • XLR Line In • XLR Line Out • Terminal block Line In • Terminal block Line Out • Terminal block Relay In • Terminal block Relay Out	• Aux Out • Telephone Port • Terminal block 8 Ω Out • Terminal block Line Out • Terminal block Relay In • Terminal block Relay Out
Emulates an analog telephone	No	Yes
Supports multiple analog speaker zones	No	No
SIP extensions	• 50 Page (Capable of talkback when an appropriate speaker and microphone are connected) • 10 Emergency Alert • 10 Ring	• 50 Page • 10 Emergency Alert • 10 Ring

8373	8312
When there is a need for 3 relay outputs for switching amplified audio to 3 or more physically wired speaker zones. This allows integration between IP-based zone selection & legacy analog infrastructure.	When working to bridge UC platforms, legacy paging systems, compatible two-way radios, and automated communication workflows into a single IP-based communication system.
Yes	Yes
Yes	Yes
Yes	Yes
No	Yes
• XLR Line Out • Terminal block Line Out • Terminal block Relay Out • Terminal block Channel 3 (SHLD/-/+) • Terminal block Channel 2 (SHLD/-/+) • Terminal block Channel 1 (SHLD/-/+) • Terminal block Amp In (SHLD/-/+)	• Page Audio Out • Page Relay • Terminal block Line In • Smart Relay • 12 Sensor Inputs • Radio • USB-A • Aux In • Aux Out • Terminal block • Relay Out
No	No
Yes	No

8373	8312
50 page	• 50 Page (Capable of talkback when an appropriate speaker and microphone are connected) • 10 Emergency Alert • 10 Ring

8301 IP Paging Adapter & Scheduler

The 8301 is the ideal paging adapter for most applications. It is the most direct paging gateway to bridge VoIP to analog systems. It's designed to be a balanced line output to a single amplifier.

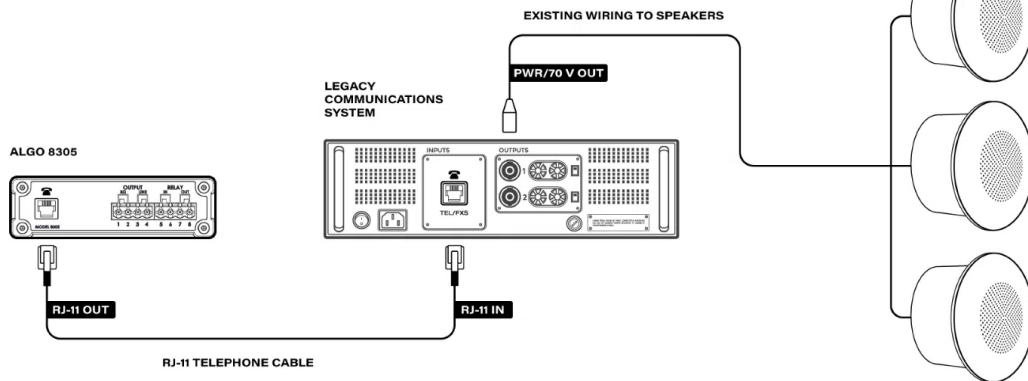


8305 Multi-Interface IP Paging Adapter

The 8305 is the ideal paging adapter for integrating legacy paging systems that provide a "talk battery pair". Although similar to the 8301, the 8305 was specifically designed to create a hybrid VoIP environment by emulating an analog telephone.

Algo 8305 Wiring Diagram

TEL/FXS to Legacy Communications System and Speakers

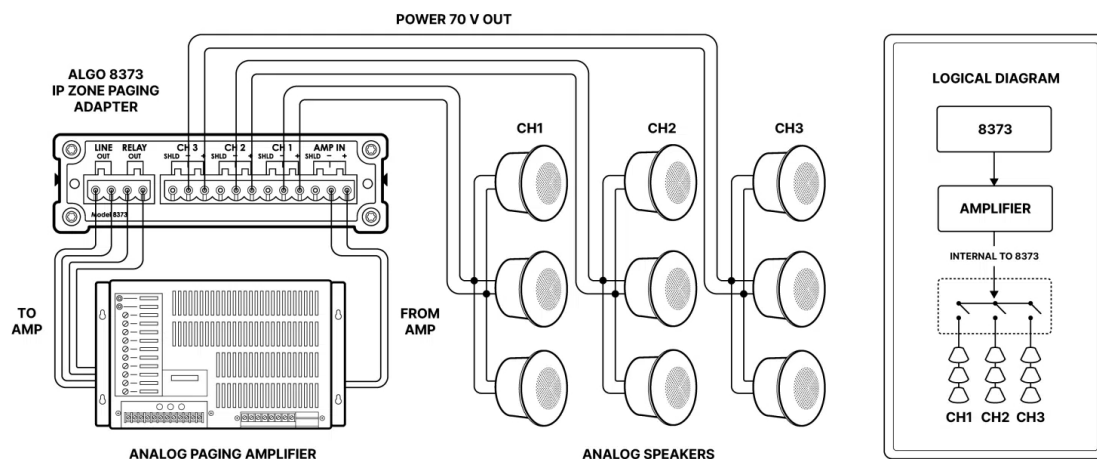


8373 IP Zone Paging Adapter

The 8373 IP Zone Paging Adapter is the ideal paging adapter to replace a legacy zone controller for up to three groups of analog speakers. This IP paging adapter is best if you want to retain zoning speakers as-is. The 8373 contains three high-powered relays that can be used to switch a single amplifier's output signal.

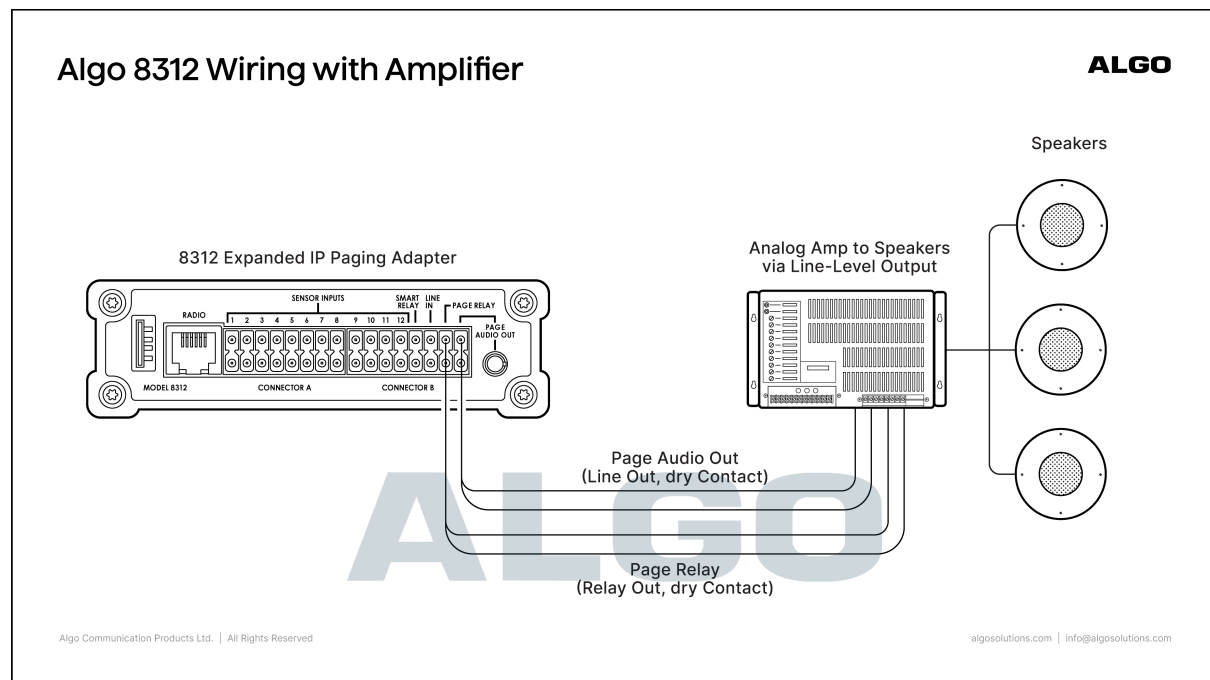
Algo 8373 Wiring Diagram

Line and Relay Out to Legacy Communications System and Speakers



8312 Expanded IP Paging Adapter

The 8312 Expanded IP Paging Adapter builds on the SIP paging capabilities of the 8301 IP Paging Adapter & Scheduler, combining UC-based voice paging, scheduling, legacy amplifier integration, handheld radio integration, and relay-triggered workflows in a single network-connected device. Distribute audio from UC platforms to overhead paging systems, compatible handheld radio users, or both simultaneously.



Algo Paging Adapter Compatibility with Third-Party Amplifiers

Algo Paging Adapters can integrate with various legacy amplifiers. See the following table for an overview of compatibility.

Legend:

- ✓: Compatible.
- ✓✓: Recommended
- *: Compatible. However, it is only recommended if the analog speaker requires zoning and the amplifier is incapable of doing so.

• **X**: Not compatible

Amplifier	8301	8305	8373	8312
Adastra RM60/120/240S	✓✓	X	*	✓
AT&T/Lucent PagePal	✓✓	✓	X	✓
AT&T PagePac 20 PowerMate	✓✓	X	X	✓
Bogen Black Max X300/X600/X450	✓✓	✓	*	✓
Bogen C35/C60/C100	✓✓	✓	*	✓
Bogen GS35/GS60/GS100 & GS150/GS250	✓✓	✓	*	✓
Bogen HTA250	✓✓	✓	*	✓
Bogen PCM2000	✓✓	✓	X	✓
Bogen PS600	✓✓	✓	*	✓
Bogen TPU-35/60/100/250	✓✓	✓	*	✓
Bogen UTI1	✓	✓✓	*	✓
Bogen UTI312	✓✓	✓	X	✓
Bogen ZPM3-9	✓	✓✓	X	✓
Crown 135MA/160MA	✓✓	✓	*	✓
Crown CDi 1000/2000/4000	✓✓	✓	✓	✓
Inter-M PA-60/120/240	✓✓	✓	X	✓
Inter-M PA-920/935	✓✓	✓	*	✓

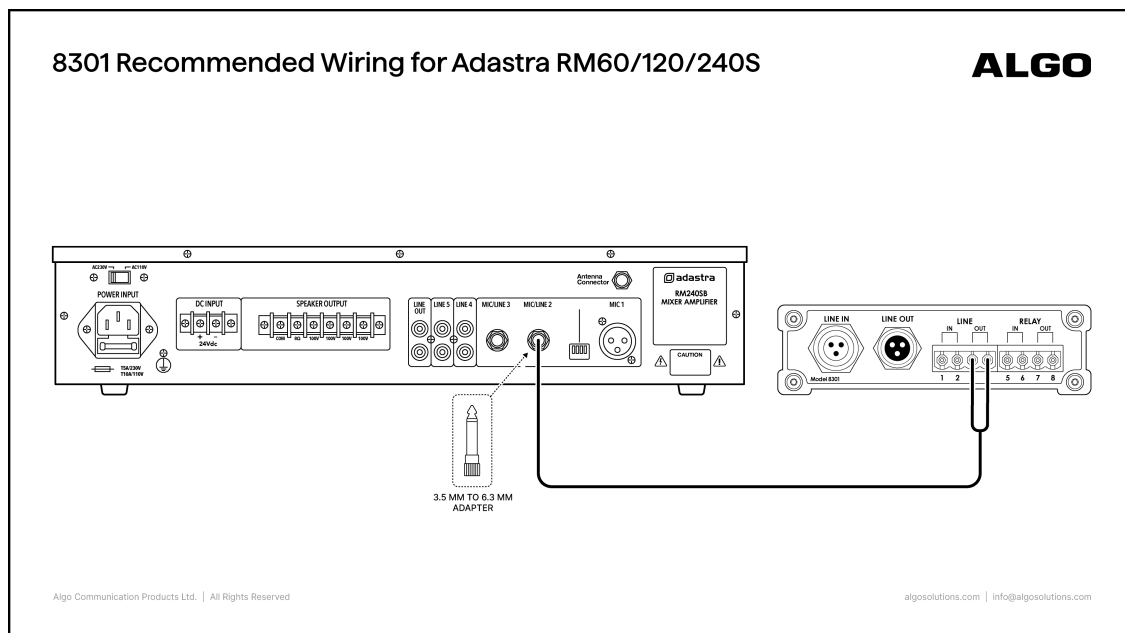
Amplifier	8301	8305	8373	8312
Paso 3000 Series	✓✓	✓	*	✓
Speco P-60FACD	✓✓	✓	*	✓
Speco PBM-15/PBM-30	✓✓	✓	*	✓
Speco PL200M	✓✓	X	X	✓
TOA 500 Series	✓✓	X	X	✓
TOA BG-115/130	✓✓	✓	*	✓
TOA BG-220/235	✓✓	✓	*	✓
TOA BG-1015/1030/1060/1120	✓✓	✓	*	✓
TOA BG-2035/2060/2120	✓✓	✓	*	✓
Valcom 2003AHF	X	✓✓	X	X
Valcom V-1094A	✓✓	✓	X	✓
Valcom V-2000a	✓✓	✓	X	✓
Valcom V-2001a	✓✓	✓	*	✓
Valcom V-2003a	✓✓	✓	X	✓
Valcom V-2006a	✓✓	✓✓	X	✓
Valcom V-2924A	✓✓	✓	X	✓
Valcom V-9941A	✓✓	✓	X	✓
Valcom VIP-801A	✓✓	✓	X	✓
Viking CPA-7B	✓✓	✓	X	✓

Amplifier	8301	8305	8373	8312
Viking PA-2A	✓✓	✓	X	✓
Viking PA-15	✓✓	✓	X	✓
Viking PA-60	✓✓	✓	*	✓
Viking ZPI-4	X	✓✓	X	X

Connection Diagrams

Below are details on connecting an Algo paging adapter with various legacy amplifiers.

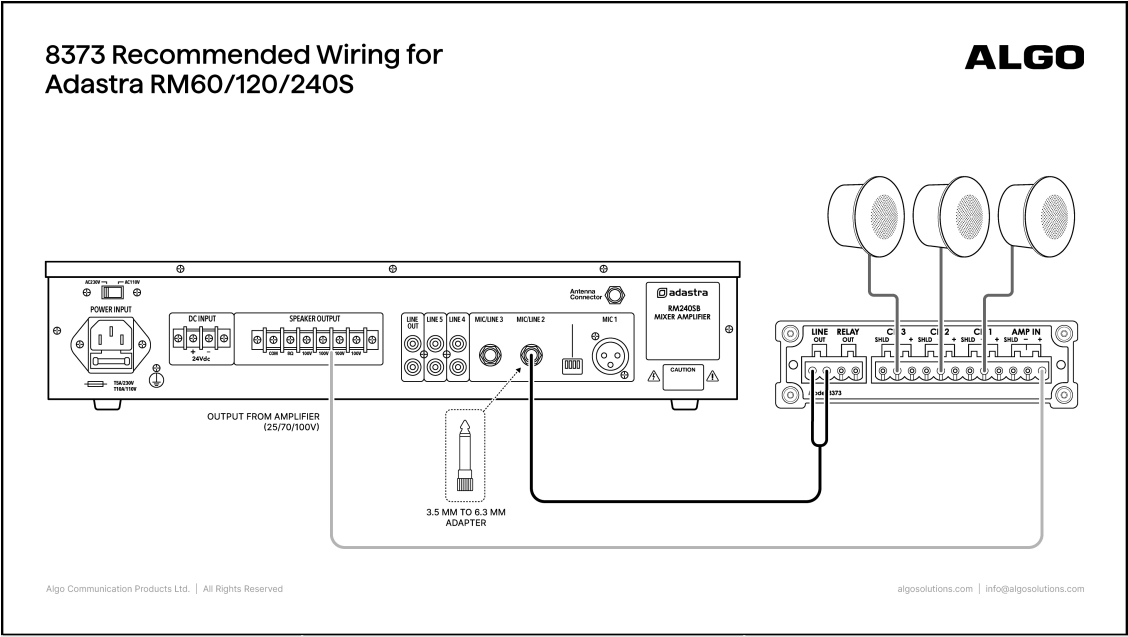
Adastra RM60/120/240S with 8301



Port Connections:	Algo	Adastra
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Adastra RM60/120/240S	
• Line Out (3, 4)	• Mic/Line 2	
Recommended Equipment:	• Aux Cable • 3.5 mm to 6.3 mm adapter	
Notes:	• Strip the leads on one end of the AUX cable. Connect the positive and negative (usually red and black) terminals to the Line Out. • Use a 3.5 mm to 6.3 mm adapter to connect the other end to the amplifier input Mic/Line 2. • On the 8301 web interface, go to Basic Setting → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Adastra RM60/120/240S with 8373





Port Connections:	Algo	Adastra
Algo Product:	8373 IP Zone Paging Adapter	
Amplifier Product:	Adastra RM60/120/240S	
• Line Out • Amp In	• Mic/Line 2 • Speaker output	
Recommended Equipment:	• Aux Cable • 3.5 mm to 6.3 mm adapter	

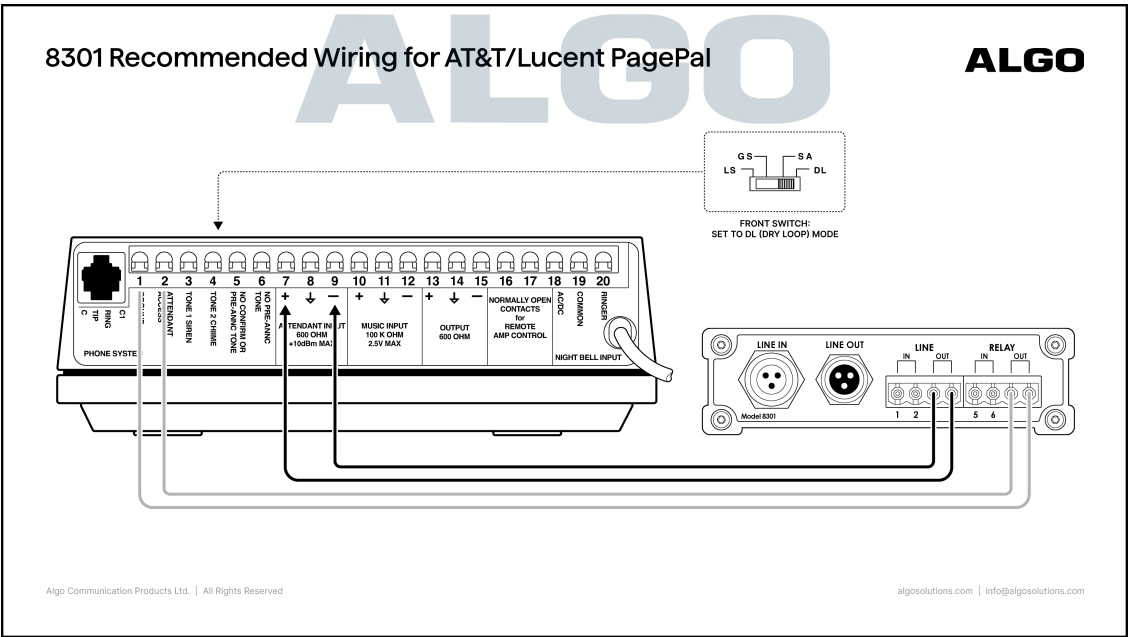
Port Connections:	Algo	Adastra
Notes:	• Use an AUX cable and strip the leads on one end. Connect the positive and negative (usually red and black) terminals to the Line Out. • To connect the other end to the amplifier input Mic/Line 2, use a 3.5 mm to 6.3 mm adapter. • On the 8373 web interface, go to Basic Setting → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Adastra RM60/120/240S with 8312 ^

Port Connections:	Algo	Adastra
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Adastra RM60/120/240S	
• PAGE AUDIO OUT (3,4)	• Mic/Line 2	
Recommended Equipment:	• Aux Cable • 3.5 mm to 6.3 mm adapter	

Port Connections:	Algo	Adastra
Notes:	- Strip the leads on one end of the AUX cable. Connect the positive and negative (usually red and black) terminals to the PAGE AUDIO OUT. - Use a 3.5 mm to 6.3 mm adapter to connect the other end to the amplifier input Mic/Line 2. - On the 8312 web interface, go to Basic Setting → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

AT&T/Lucent PagePal with 8301



Port Connections:	Algo	AT&T
Algo Product:	8301 IP Paging Adapter & Scheduler	

Port Connections:	Algo	AT&T
Amplifier Product:	AT&T/Lucent PagePal	
• Line Out (3, 4) • Relay Out (7, 8)	• Attendant Input (7, 9) • Ground (1) and Attendant Access (2)	
Notes:	• Set the PagePal to DL (Dry Loop) mode using the switch in the front. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

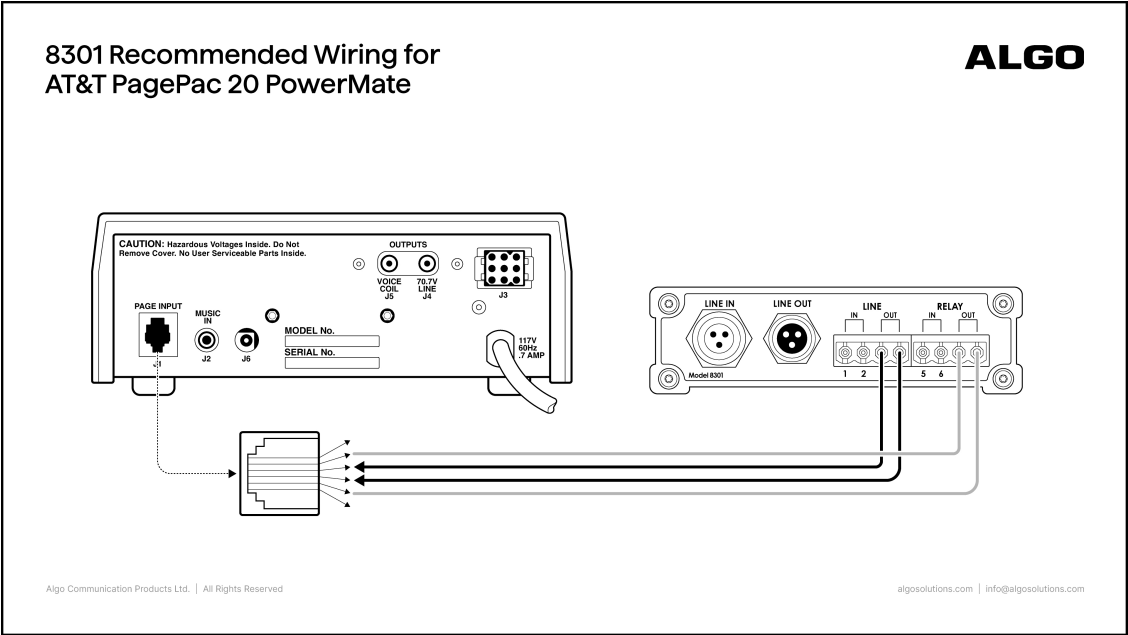
ALGO

AT&T/Lucent PagePal with 8312 ^

Port Connections:	Algo	AT&T
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	AT&T/Lucent PagePal	

Port Connections:	Algo	AT&T
• PAGE AUDIO OUT(3, 4) • PAGE RELAY	• Attendant Input (7, 9) • Ground (1) and Attendant Access (2)	
Notes:	• Set the PagePal to DL (Dry Loop) mode using the switch in the front. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

AT&T PagePac 20 PowerMate with 8301



Port Connections:	Algo	AT&T
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	AT&T PagePac 20 PowerMate	
• Line Out (3, 4) • Relay Out (7, 8)	• Page Input	
Notes:	• On the 8301 web interface, go to Basic Settings→ Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

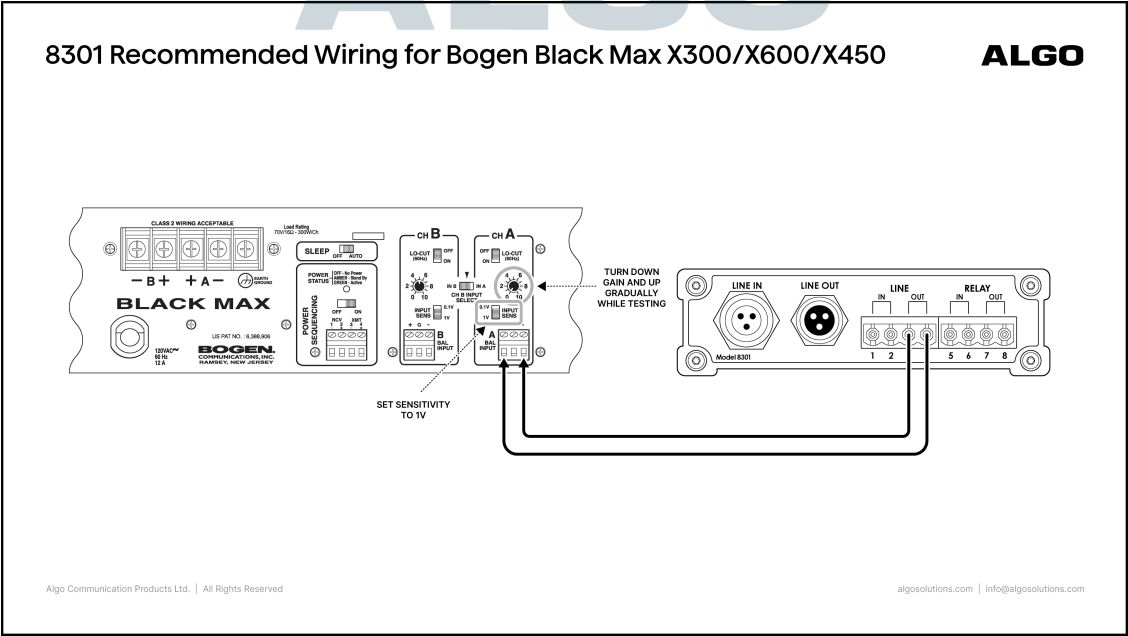
ALGO

AT&T PagePac 20 PowerMate with 8312 ^

Port Connections:	Algo	AT&T
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	AT&T PagePac 20 PowerMate	

Port Connections:	Algo	AT&T
• PAGE AUDIO OUT(3, 4) • PAGE RELAY	• Page Input	
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen Black Max X300/X600/X450 with 8301



Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Bogen Black Max X300/X600/X450	
• Line Out (3, 4)	• Bal Input	
Notes:	• Can connect to channel A or channel B using the Input Select switch. Make sure the channel has the input sensitivity to 1V. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to +4dBu 10k (1.23 Vrms).	

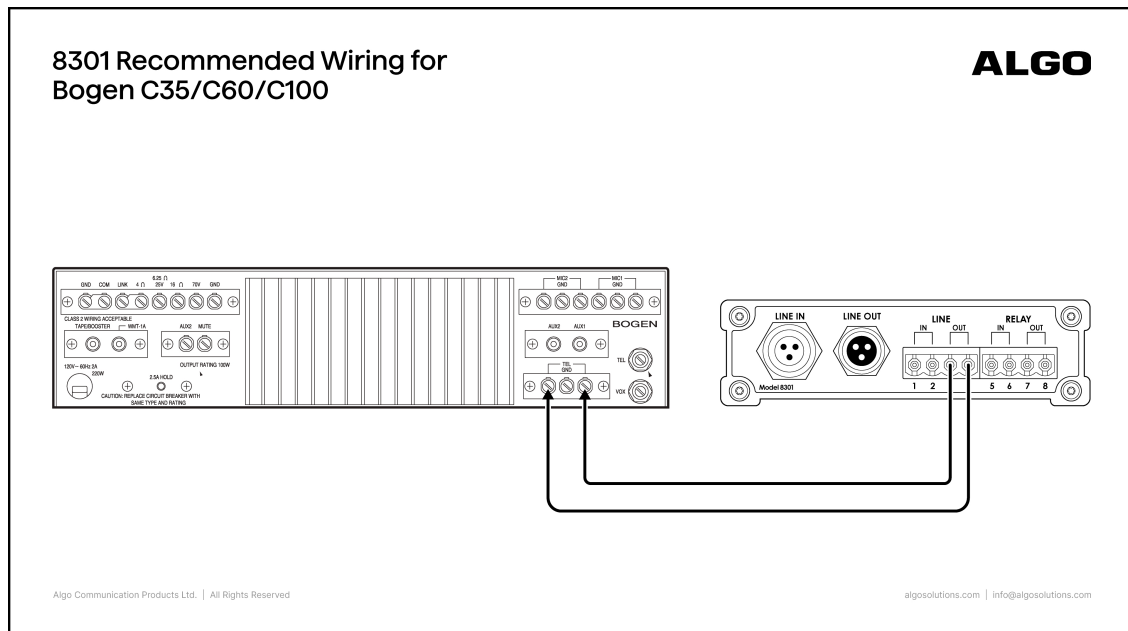
ALGO

Bogen Black Max X300/X600/X450 with 8312 ^

Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen Black Max X300/X600/X450	

Port Connections:	Algo	Bogen
PAGE AUDIO OUT(3, 4)	Bal Input	
Notes:	- Can connect to channel A or channel B using the Input Select switch. Make sure the channel has the input sensitivity to 1V. - On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to +4dBu 10k (1.23 Vrms).	

Bogen C35/C60/C100 with 8301

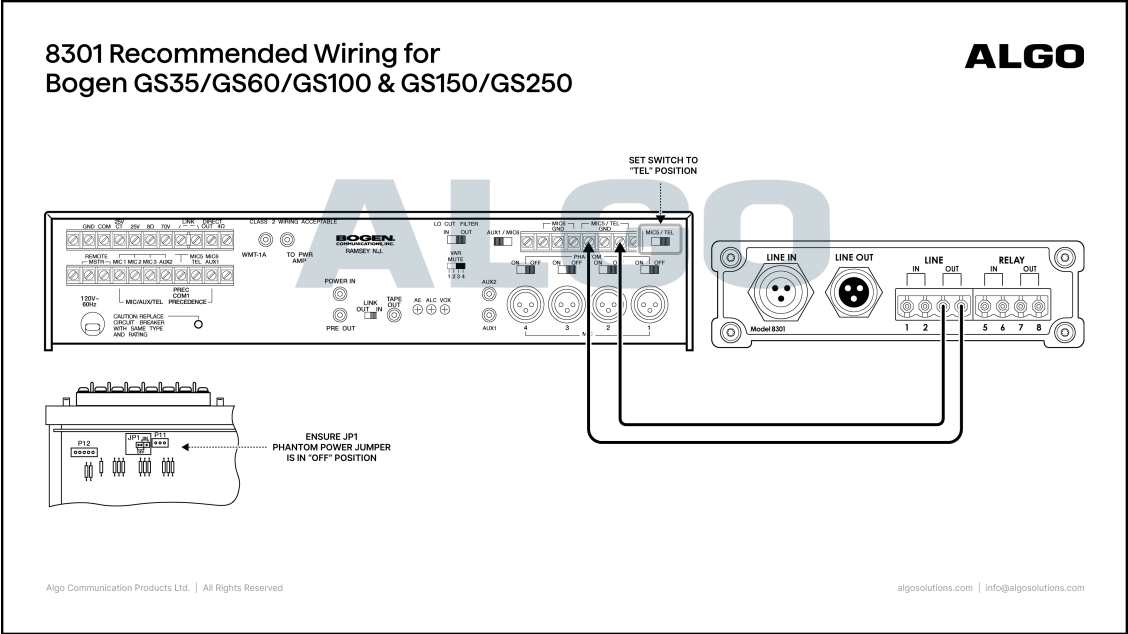


Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Bogen C35/C60/C100	
• Line Out (3, 4)	• Telephone Ground (TEL GND)	
Notes:	On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen C35/C60/C100 with 8312		
Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen C35/C60/C100	
• PAGE AUDIO OUT	• Telephone Ground (TEL GND)	

Port Connections:	Algo	Bogen
Notes:	On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen GS35/GS60/GS100 & GS150/GS250 with 8301



Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Bogen GS35/GS60/GS100 & GS150/GS250	

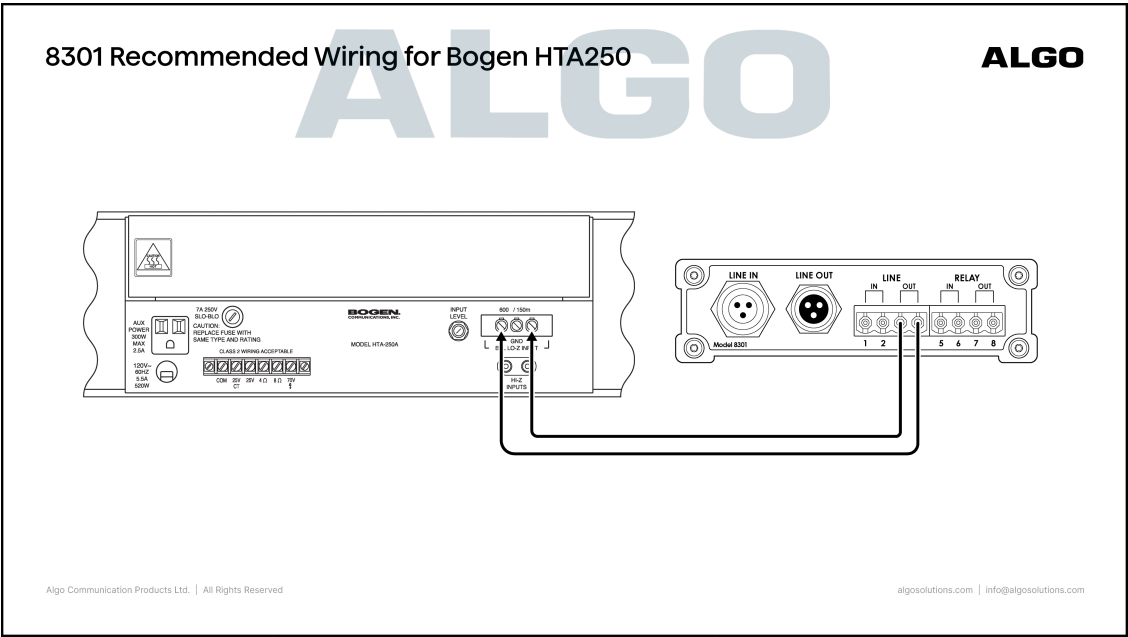
Port Connections:	Algo	Bogen
Line Out (3, 4)	Mic 5/ EL GND	
Notes:	- Set the MIC5/TEL switch to the “TEL” position. - Ensure JP1 Phantom Power Jumper is in the OFF position. - On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen GS35/GS60/GS100 & GS150/GS250 with 8312 [^]

Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen GS35/GS60/GS100 & GS150/GS250	
PAGE AUDIO OUT(3, 4)	Mic 5/ EL GND	

Port Connections:	Algo	Bogen
Notes:	• Set the MIC5/TEL switch to the “TEL” position. • Ensure JP1 Phantom Power Jumper is in the OFF position. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen HTA250 with 8301



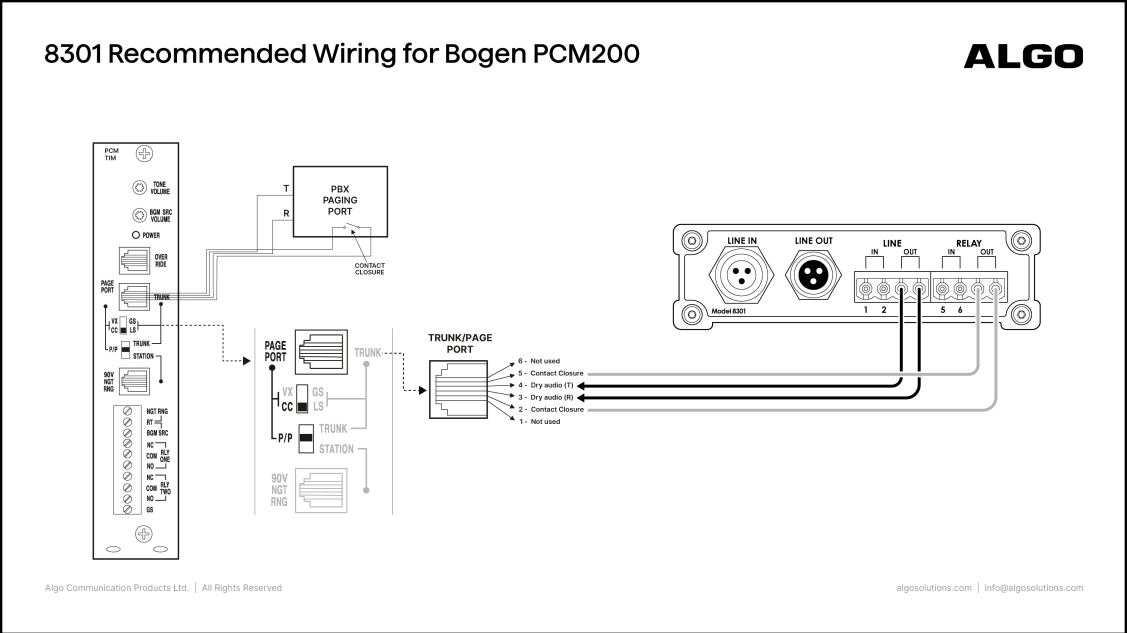
Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	

Port Connections:	Algo	Bogen
Amplifier Product:	Bogen HTA250	
• Line Out (3, 4)	• GND BAL LO-Z INPUT (left and right)	
Notes:	On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen HTA250 with 8312

Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen HTA250	
• PAGE AUDIO OUT(3, 4)	• GND BAL LO-Z INPUT (left and right)	
Notes:	On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen PCM2000 with 8301



Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Bogen PCM2000	
	• Line Out (3, 4) • Relay Out (7, 8)	• Dry Audio (3, 4) • Contact Closure (5, 2)

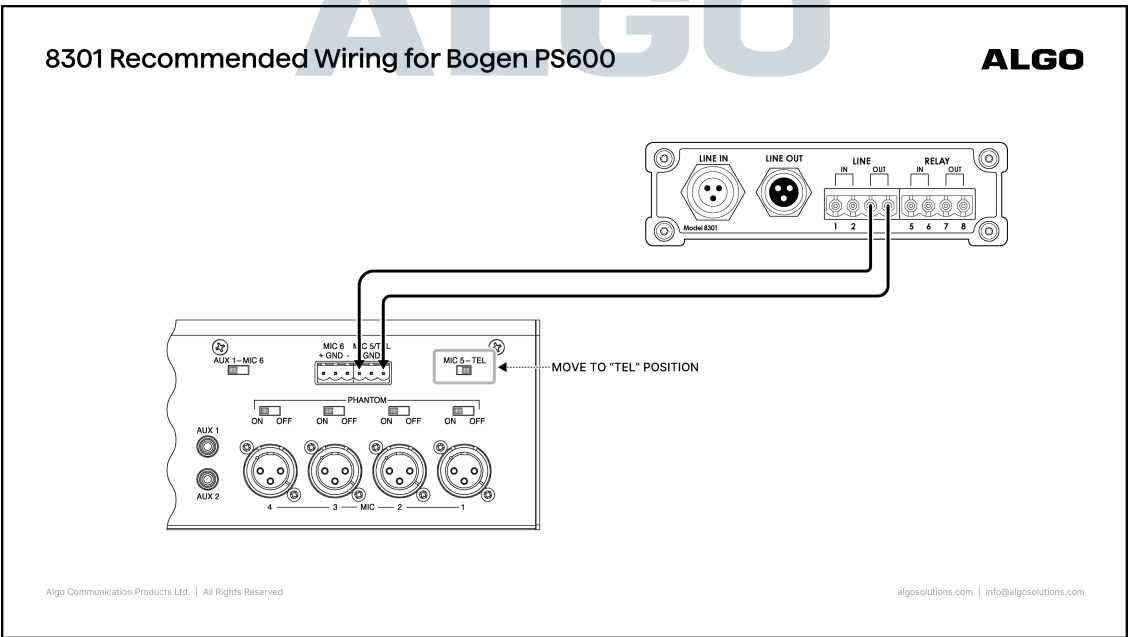
Port Connections:	Algo	Bogen
Notes:	• Before connecting, power off PCM2000 system. Set the dip switch as demonstrated above (CC switch down and P/P switch middle). • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms) • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Bogen PCM2000 with 8312 ^

Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen PCM2000	
• PAGE AUDIO OUT • PAGE RELAY	• Dry Audio (3, 4) • Contact Closure (5, 2)	

Port Connections:	Algo	Bogen
Notes:	• Before connecting, power off PCM2000 system. Set the dip switch as demonstrated above (CC switch down and P/P switch middle). • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms) • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Bogen PS600 with 8301



Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	

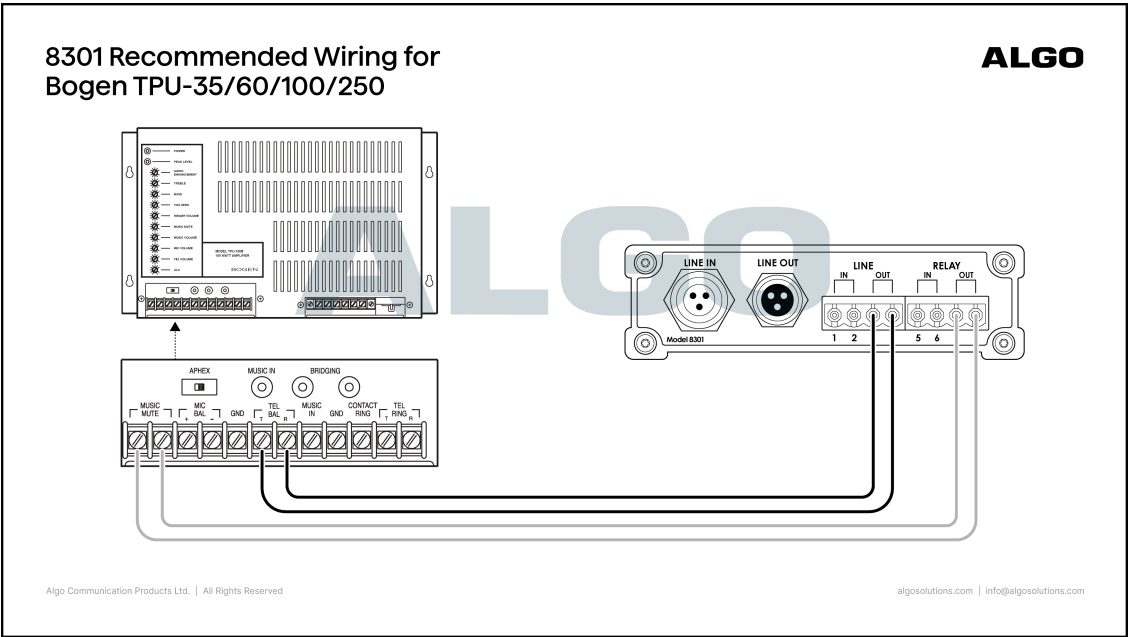
Port Connections:	Algo	Bogen
Amplifier Product:	Bogen PS600	
• Line Out (3, 4)	• MIC 5/TEL (+, -)	
Notes:	• Set the MIC5/TEL switch to the “TEL” position. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen PS600 with 8312

Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen PS600	
• PAGE AUDIO OUT	• MIC 5/TEL (+, -)	

Port Connections:	Algo	Bogen
Notes:	• Set the MIC5/TEL switch to the “TEL” position. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen TPU-35/60/100/250 with 8301



Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Bogen TPU-35/60/100/250	

Port Connections:	Algo	Bogen
• Line Out (3, 4) • Relay Out (7, 8)	• Tel Bal (T, R) Music Mute	

ALGO

Port Connections:	Algo	Bogen
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms) • Before connecting, power off the TPU-35/60/100/250 system. Set the dip switch as demonstrated above (CC switch down and P/P switch middle). The Bogen Amp Dedicated audio output available standard on most telephone systems • Can be connected directly to the input of most amplifiers. • Traditionally, a 600-ohm dry audio signal and a normally. • Control contacts, if available, activate during a page and typically control the muting of background music. The Algo 8301 Typical application: The Algo 8301 paging adapter and scheduler is used to connect an existing amplifier to UC environment as a SIP extension or a multicast endpoint. • Line output of the 8301 is connected directly to the dry audio input of the amplifier with input impedance between 600ohms and 10kOhms. • For amplifiers connected directly to the dry page port of an existing telephone system, the 8301 will provide a very similar interface, providing both dry page audio and dry contact closure to activate the amplifier (if required).	

Port Connections:	Algo	Bogen
	• For amplifiers connected to an FXS or ATA through a “telephone answering device”, the 8301 will replace the answering device and eliminate the need for an FXS or ATA.	

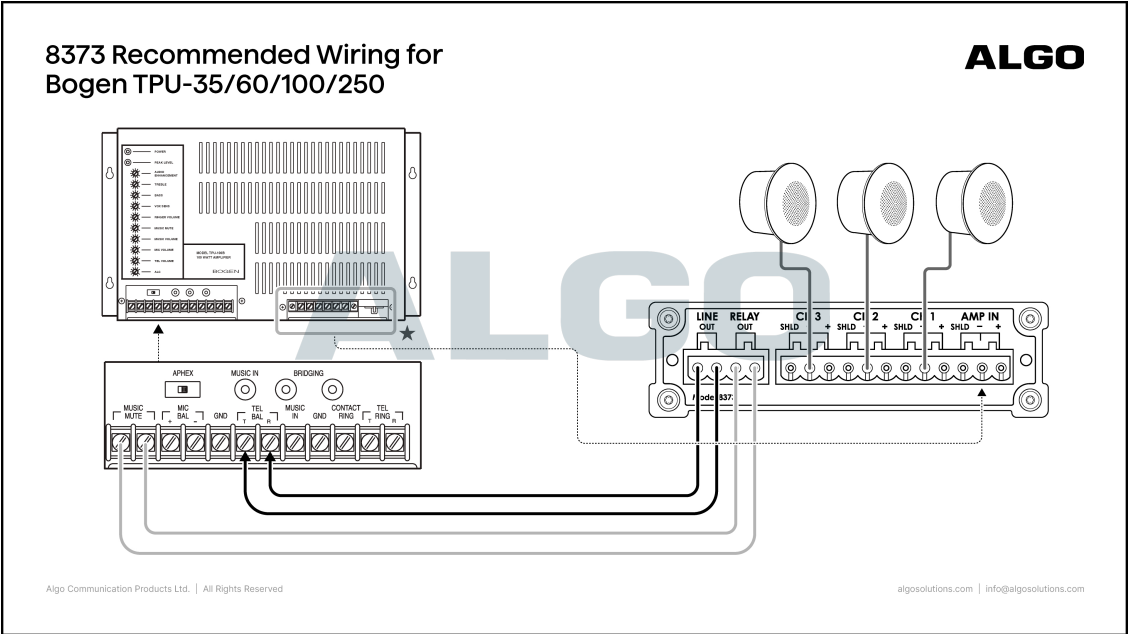
Bogen TPU-35/60/100/250 with 8312 ^

Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen TPU-35/60/100/250	
• PAGE AUDIO OUT • PAGE RELAY	• Tel Bal (T, R) Music Mute	

Port Connections:	Algo	Bogen
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio Output Level to 0dBm 600 ohm (0.775 Vrms) • Before connecting, power off the TPU-35/60/100/250 system. Set the dip switch as demonstrated above (CC switch down and P/P switch middle). The Bogen Amp Dedicated audio output available standard on most telephone systems • Can be connected directly to the input of most amplifiers. • Traditionally, a 600-ohm dry audio signal and a normally. • Control contacts, if available, activate during a page and typically control the muting of background music. The Algo 8312 Typical application: The Algo 8312 is used to connect an existing amplifier to UC environment as a SIP extension or a multicast endpoint. • PAGE AUDIO OUT of the 8312 is connected directly to the dry audio input of the amplifier with input impedance between 600ohms and 10kOhms. • For amplifiers connected directly to the dry page port of an existing telephone system, the 8312 will provide a very similar interface, providing both dry page audio and dry contact closure to activate the amplifier (if required).	

Port Connections:	Algo	Bogen
	For amplifiers connected to an FXS or ATA through a “telephone answering device”, the 8312 will replace the answering device and eliminate the need for an FXS or ATA.	

Bogen TPU-35/60/100/250 with 8373

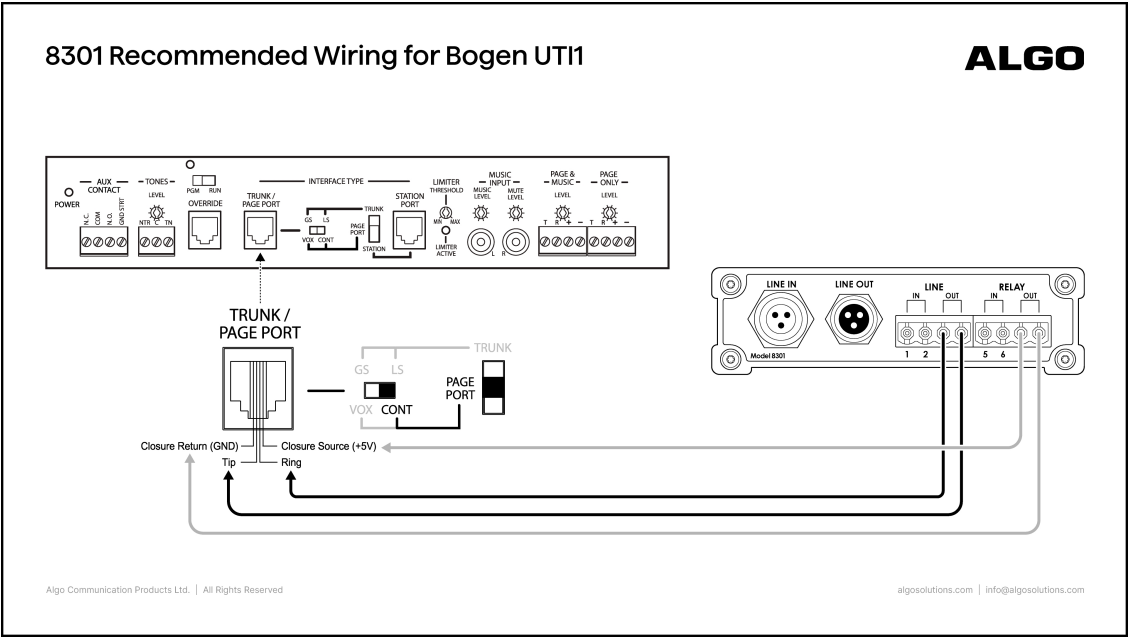


Port Connections:	Algo	Bogen
Algo Product:	8373 IP Zone Paging Adapter	
Amplifier Product:	Bogen TPU-35/60/100/250	

Port Connections:	Algo	Bogen
• Line Out • Relay Out	• Tel Bal (T, R) • Music Mute	
Notes:	• The 8373 is designed to provide a Line Out for audio to a traditional amplifier. • On the 8373 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms). • Loop the power of the amplifier into the 8373 to switch up to 500W (for 70V output) into 1-3 audio channels. At 25V the 8373 can switch up to 180W and 720W at 100V. • The speaker runs will be connected to the channel outputs on the 8373.	



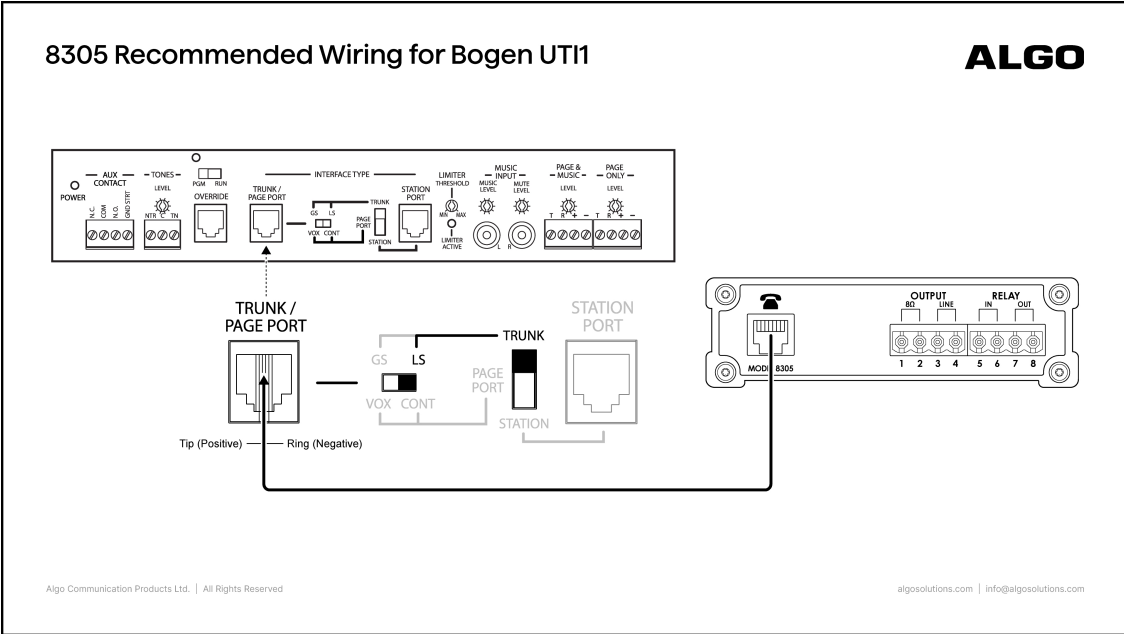
Bogen UTI1 with 8301



Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Bogen UTI1	
• Line Out (3, 4) • Relay Out (7, 8)	• Trunk/Page Port	
Notes:	• On the Bogen UTI1, set the horizontal switch to “CONT” and the vertical to “Page Port”. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen UTI1 with 8305





Port Connections:	Algo	Bogen
Algo Product:	8305 Multi-Interface IP Paging Adapter	
Amplifier Product:	Bogen UTI1	
Telephone port	Trunk/Page Port	
Notes:	- On the Bogen UTI1, set the Interface Type to LS TRUNK. - To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Bogen UTI1 with 8312



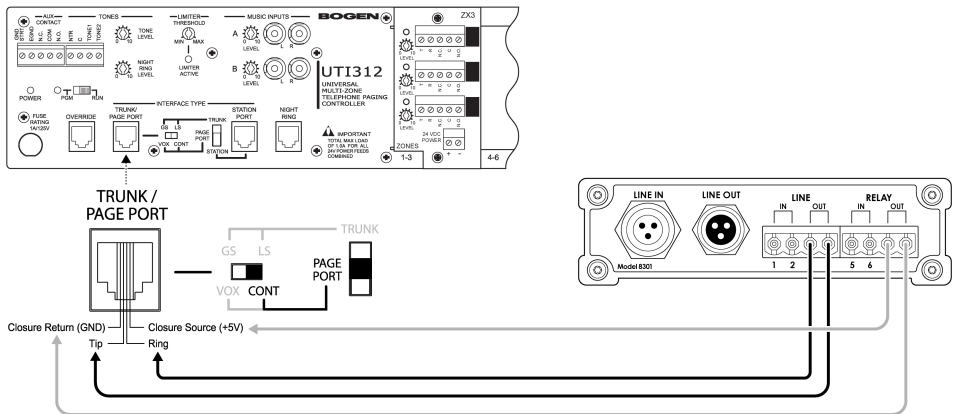
Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen UTI1	
• PAGE AUDIO OUT • PAGE RELAY	• Trunk/Page Port	
Notes:	• On the Bogen UTI1, set the horizontal switch to “CONT” and the vertical to “Page Port”. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Bogen UTI312 with 8301



8301 Recommended Wiring for Bogen UTI312

ALGO



Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

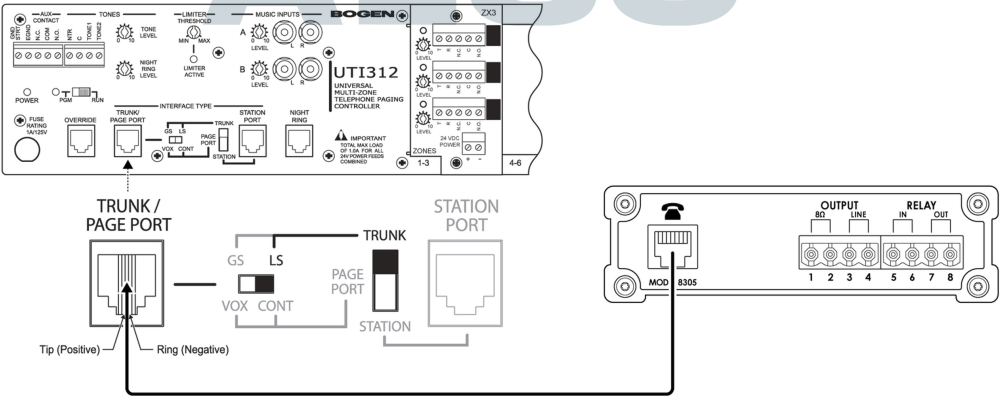
Port Connections:	Algo	Bogen
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Bogen UTI312	
	• Line Out (3, 4) • Relay Out (7, 8)	• Trunk/Page Port (Ring, Tip) • Trunk/Page Port (Closure Source (+5V), Closure Return (GND))

Port Connections:	Algo	Bogen
Notes:	• On the Bogen UTI312, set the horizontal switch to “CONT” and the vertical to “Page Port”. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms). • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Bogen UTI312 with 8305

8305 Recommended Wiring for Bogen UTI312

ALGO



Port Connections:	Algo	Bogen
Algo Product:	8305 Multi-Interface IP Paging Adapter	

Port Connections:	Algo	Bogen
Amplifier Product:	Bogen UTI312	
• Phone Port RJ11	• Trunk/Page Port (Ring, Tip)	
Notes:	• On the Bogen UTI312, set the horizontal switch to “LS” and the vertical to “TRUNK”. • On the 8305 web interface, go to Basic Settings → Features and set the Analog Output Port/Level to Phone or 8Ω Port. • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

ALGO

Bogen UTI312 with 8312 ^

Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen UTI312	

Port Connections:	Algo	Bogen
• PAGE AUDIO OUT • PAGE RELAY	• Trunk/Page Port (Ring, Tip) • Trunk/Page Port (Closure Source (+5V), Closure Return (GND))	
Notes:	• On the Bogen UTI312, set the horizontal switch to “CONT” and the vertical to “Page Port”. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms). • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

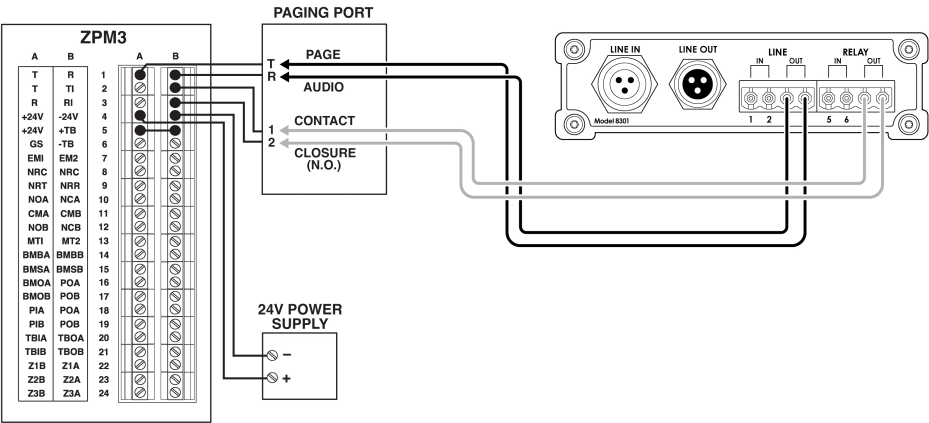
ALGO

Bogen ZPM3-9 with 8301



8301 Recommended Wiring for Bogen ZPM3

ALGO



Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port
Connections:

Algo

Bogen

Algo
Product:

8301 IP Paging Adapter & Scheduler

Amplifier
Product:

Bogen ZPM3-9

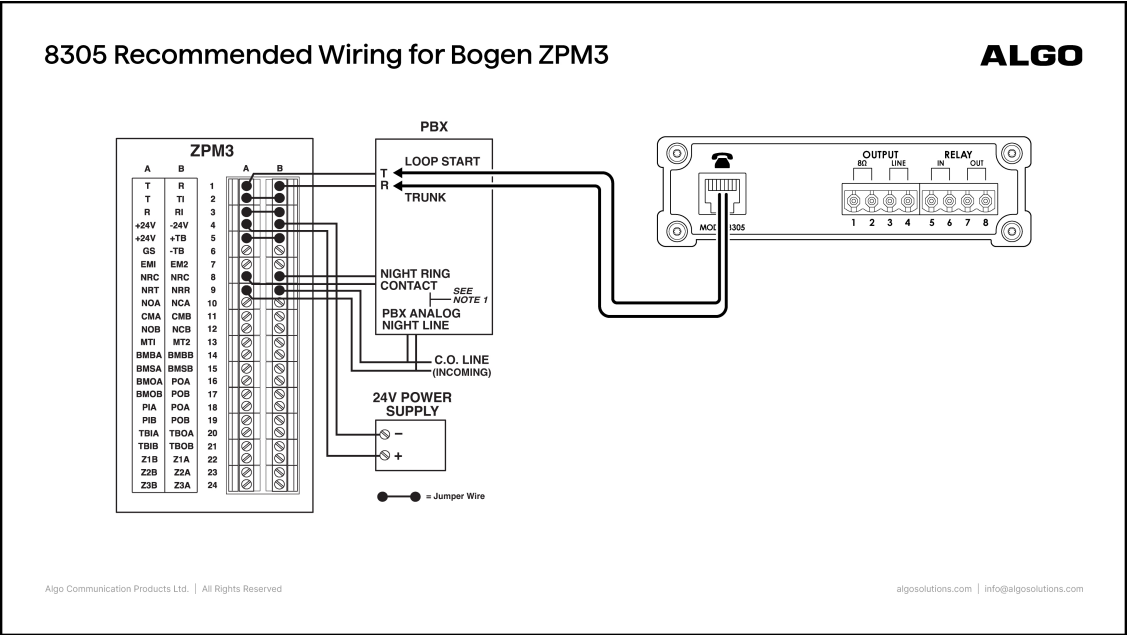
- Line Out
(3, 4)
- Relay Out
(7, 8)

- Paging Port (R, T)
- Paging Port (1, 2)

Notes:

- On the 8301 web interface, go to **Basic Settings** → **Features** and set the **Line Out Analog Output Level** to **0dBm 600 ohm (0.775 Vrms)**.
- To play DTMF tones and control the zones, enable **Generate In-Band DTMF Tones** under **Advanced Settings** → **Advanced Audio**.

Bogen ZPM3-9 with 8305

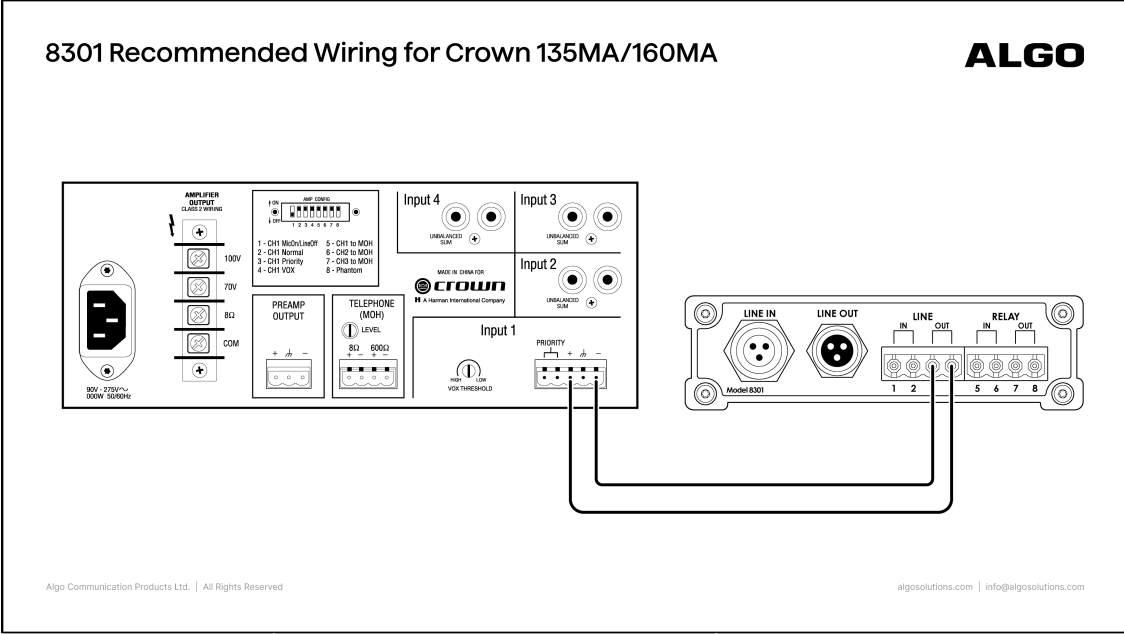


Port Connections:	Algo	Bogen
Algo Product:	8305 Multi-Interface IP Paging Adapter	
Amplifier Product:	Bogen ZPM3-9	
• Telephone port	• Paging Port (R, T)	
Notes:	- On the 8305 web interface, go to Basic Settings → Features and set the Analog Output Port/Level to Phone or 8Ω Port. - To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Bogen ZPM3-9 with 8312

Port Connections:	Algo	Bogen
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Bogen ZPM3-9	
• PAGE AUDIO OUT • PAGE RELAY	• Paging Port (R, T) • Paging Port (1, 2)	
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms). • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Crown 135MA/160MA with 8301



Port Connections:	Algo	Crown
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Crown 135MA/160MA	
Line Out (3, 4)	Input 1 (+, -)	
Notes:	- Set switch 1 to “Line” position. - On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Crown 135MA/160MA with 8312

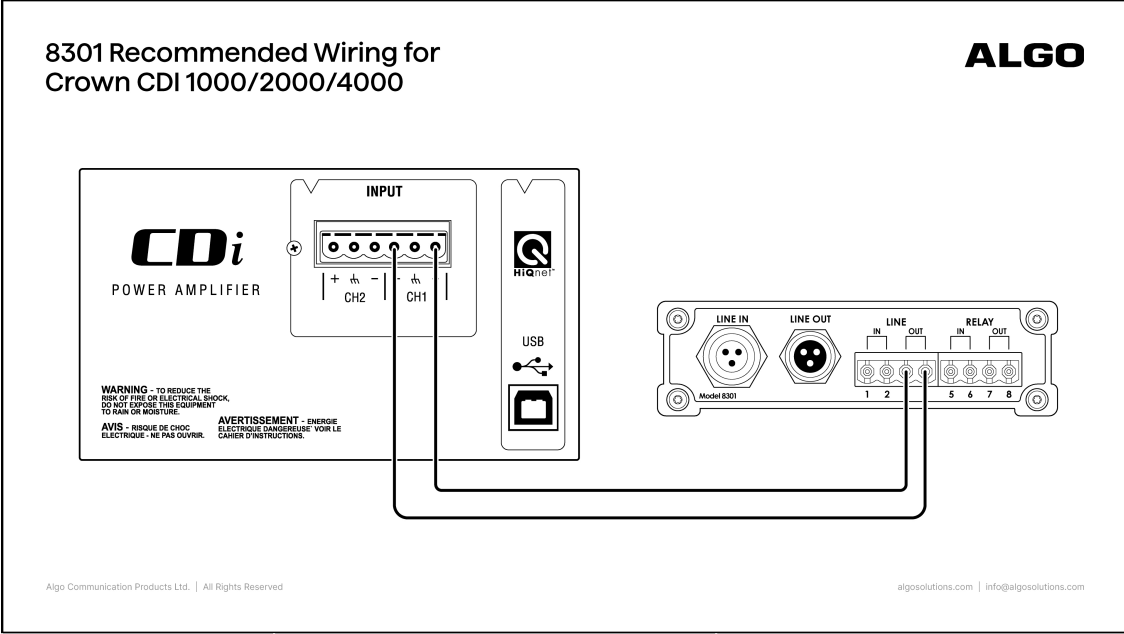


Port Connections:	Algo	Crown
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Crown 135MA/160MA	
• PAGE AUDIO OUT	• Input 1 (+, -)	
Notes:	• Set switch 1 to “Line” position. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

ALGO

Crown CDi 1000/2000/4000 with 8301





Port Connections:	Algo	Crown
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	CDi 1000/2000/4000	
• Line Out (3, 4)	• Ch1 (+, -) or Ch2 (+, -)	
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to +4dBu 10k (1.23 Vrms) .	

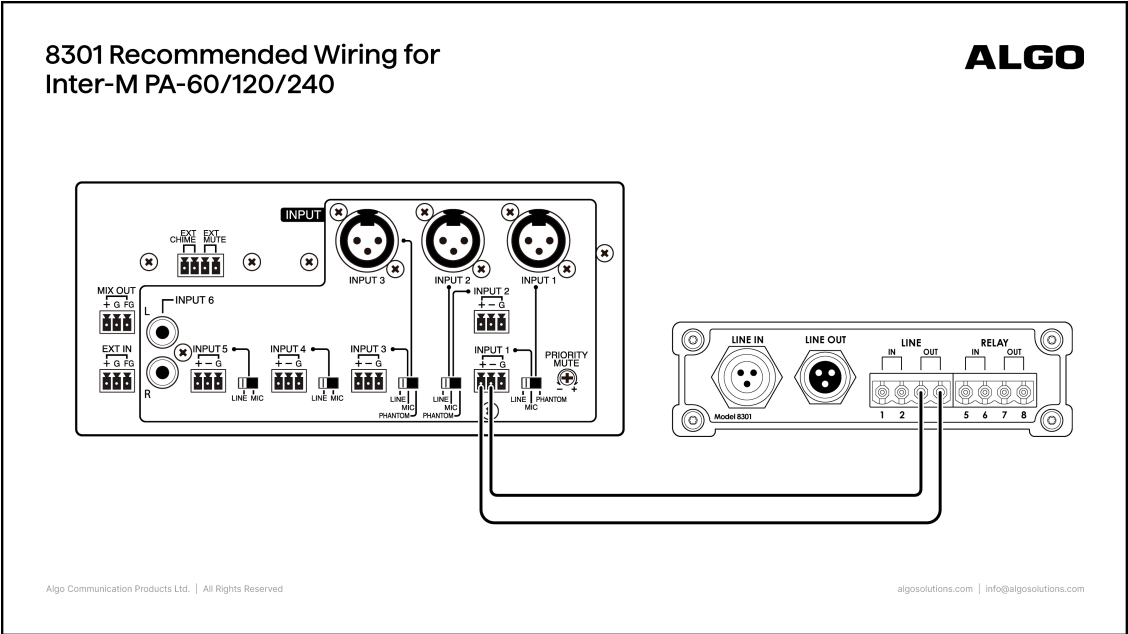
Crown CDi 1000/2000/4000 with 8312



Port Connections:	Algo	Crown
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	CDi 1000/2000/4000	
• PAGE AUDIO OUT	• Ch1 (+, -) or Ch2 (+, -)	
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to +4dBu 10k (1.23 Vrms) .	

ALGO

Inter-M PA-60/120/240 with 8301



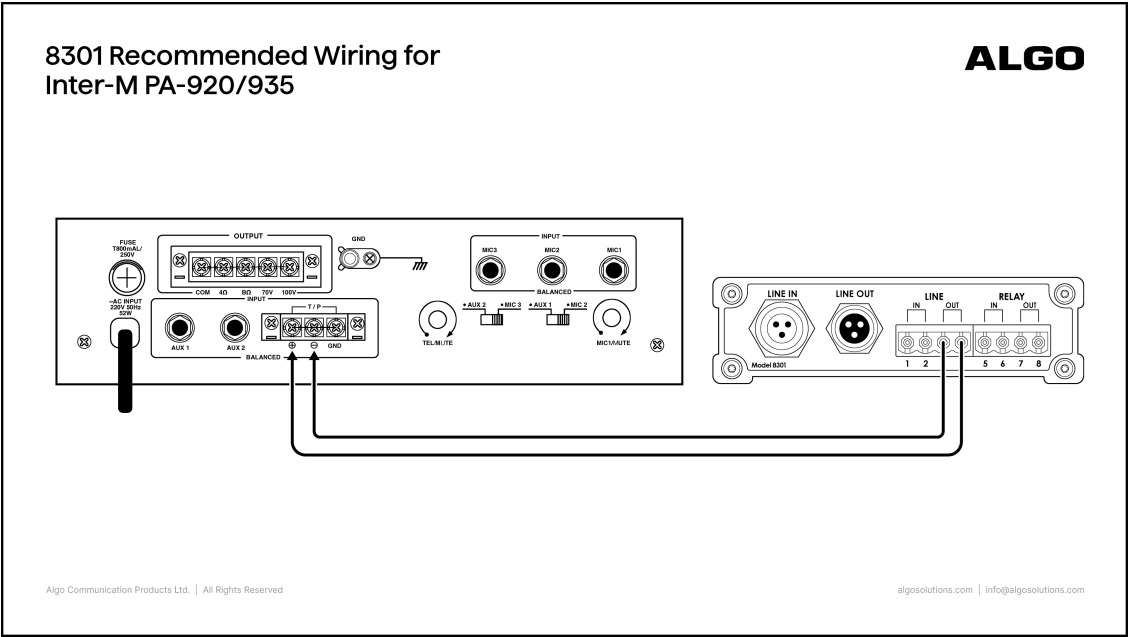
Port Connections:	Algo	Inter-M
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Inter-M PA-60/120/240	
• Line Out (3, 4)	• Input 1 (+, -)	
Notes:	• Connect the Line Out pair on the 8301 to the + and – terminals on one of the Inter-M inputs. Move the input selection switch to the “Line” position. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Inter-M PA-60/120/240 with 8312 ^

Port Connections:	Algo	Inter-M
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Inter-M PA-60/120/240	

Port Connections:	Algo	Inter-M
PAGE AUDIO OUT	Input 1 (+, -)	
Notes:	- Connect the Line Out pair on the 8312 to the + and – terminals on one of the Inter-M inputs. Move the input selection switch to the “Line” position. - On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Inter-M PA-920/935 with 8301



Port Connections:	Algo	Inter-M
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Inter-M PA-920/935	
• Line Out (3, 4)	• T/P (+, -)	
Notes:	On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms)	

Inter-M PA-920/935 with 8312		
Port Connections:	Algo	Inter-M
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Inter-M PA-920/935	
• PAGE AUDIO OUT	• T/P (+, -)	

Port Connections:	Algo	Inter-M
Notes:	On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Paso 3000 Series with 8301

8301 Recommended Wiring for Paso 3000 Series

ALGO

ALGO Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port Connections:	Algo	Paso
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Paso 3000	

Port Connections:	Algo	Paso
• Line Out (3, 4)	• Tel (Com, Hot)	
Notes:	On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms)	

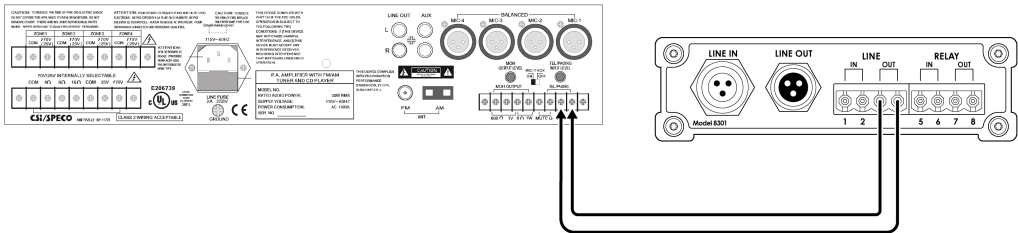
Paso 3000 Series with 8312 ^

Port Connections:	Algo	Paso
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Paso 3000	
• PAGE AUDIO OUT	• Tel (Com, Hot)	
Notes:	On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Speco P-60FACD with 8301

8301 Recommended Wiring for Speco P-60FACD

ALGO



Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port Connections:	Algo	Speco
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Speco P-60FACD	
Line Out (3, 4)	TEL/PAGING input terminals (HOT, COM)	
Notes:	On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms)	

Speco P-60FACD with 8312

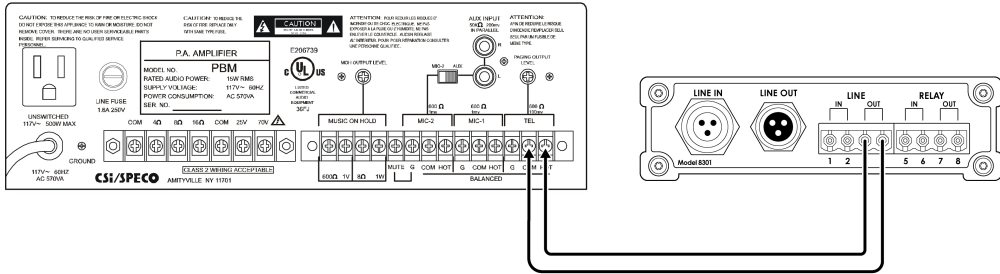
Port Connections:	Algo	Speco
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Speco P-60FACD	
• PAGE AUDIO OUT	• TEL/PAGING input terminals (HOT, COM)	
Notes:	On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

ALGO

Speco PBM-15/PBM-30 with 8301

8301 Recommended Wiring for Speco PBM-15 / PBM-30

ALGO



Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port Connections:	Algo	Speco
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Speco PBM-15/PBM-30	
Line Out (3, 4)	TEL input terminals (HOT, COM)	
Notes:	On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms)	

Speco PBM-15/PBM-30 with 8312



Port Connections:	Algo	Speco
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Speco PBM-15/PBM-30	
• PAGE AUDIO OUT	• TEL input terminals (HOT, COM)	
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms) .	

Speco PL200M with 8301

8301 Recommended Wiring for Speco PL200M

ALGO

The diagram illustrates the recommended wiring for the 8301 amplifier to the Speco PL200M. The 8301 unit features a 'LINE IN' terminal, a 'LINE OUT' terminal, and a 'RELAY' terminal. The Speco PL200M unit has 'TEL' input terminals (HOT, COM) and 'TEL' output terminals (HOT, COM). The wiring shows the 8301 'LINE OUT' connected to the Speco 'TEL' output, and the 8301 'RELAY' connected to the Speco 'TEL' input.

Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port Connections:	Algo	Speco
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Speco PL200M	
• Line Out (3, 4) • Relay Out (7, 8)	• Tel. Paging (R, T) • Priority	
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms)	

ALGO

Speco PL200M with 8312

Port Connections:	Algo	Speco
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Speco PL200M	

Port Connections:	Algo	Speco
• PAGE AUDIO OUT • PAGE RELAY	• Tel. Paging (R, T) • Priority	
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

TOA 500 Series with 8301

8301 Recommended Wiring for TOA 500 Series

ALGO

The diagram illustrates the recommended wiring for the 8301 module to the TOA 500 Series. It shows the following components and connections:

- INPUT 4 (AUX1/MIC4):** Labeled with COM, HOT, and UNBALANCED. It includes a 500 Ω 0.5W resistor.
- INPUT 3 (MAG PHONO / MIC3):** Labeled with COM, HOT, and UNBALANCED. It includes a 500 Ω 0.5W resistor.
- INPUT 2 (MIC 2):** Labeled with ON, OFF, PHANTOM, and 2000 0.3mV. It includes a 2000 Ω 0.3W resistor.
- INPUT 1 (MIC 1):** Labeled with ON, OFF, PHANTOM, and 2000 0.3mV. It includes a 2000 Ω 0.3W resistor.
- LINE IN:** A 6-pin connector labeled LINE IN.
- LINE OUT:** A 6-pin connector labeled LINE OUT.
- RELAY:** A 4-pin connector labeled RELAY with terminals IN, OUT, IN, and OUT.

CAUTION: DISCONNECT SUPPLY CORD BEFORE REPLACING MODULE. / DEBRANCHER AVANT DE REMPLACER LE MODULE.

LISTED COMMERCIAL SOUND EQUIP. 1111 J

Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port Connections:	Algo	TOA
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	TOA 500 Series	
• Line Out	• Input 1	
Recommended Equipment:	• Algo 2504 Output XLR-Mini Female to XLR Mal	
Notes:	• On the 8301 web interface, go to Basic Setting → Features and set the Line Out Analog Output Level to -10dBm 600 ohm (0.245 Vrms) • On the amp, set the Phantom switch above the input to the off position.	

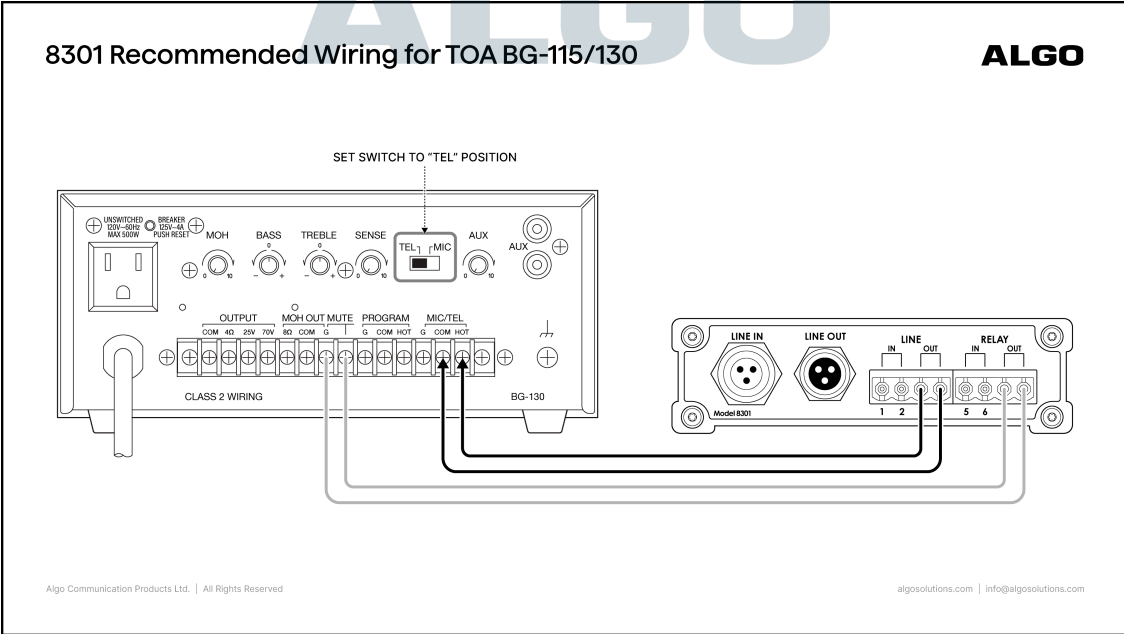
ALGO

TOA 500 Series with 8312

Port Connections:	Algo	TOA
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	TOA 500 Series	
• PAGE AUDIO OUT	• Input 1	

Port Connections:	Algo	TOA
Recommended Equipment:	Algo 2504 Output XLR-Mini Female to XLR Male	
Notes:	- On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level. - On the amp, set the Phantom switch above the input to the off position.	

TOA BG-115/130 with 8301



Port Connections:	Algo	TOA
Algo Product:	8301 IP Paging Adapter & Scheduler	

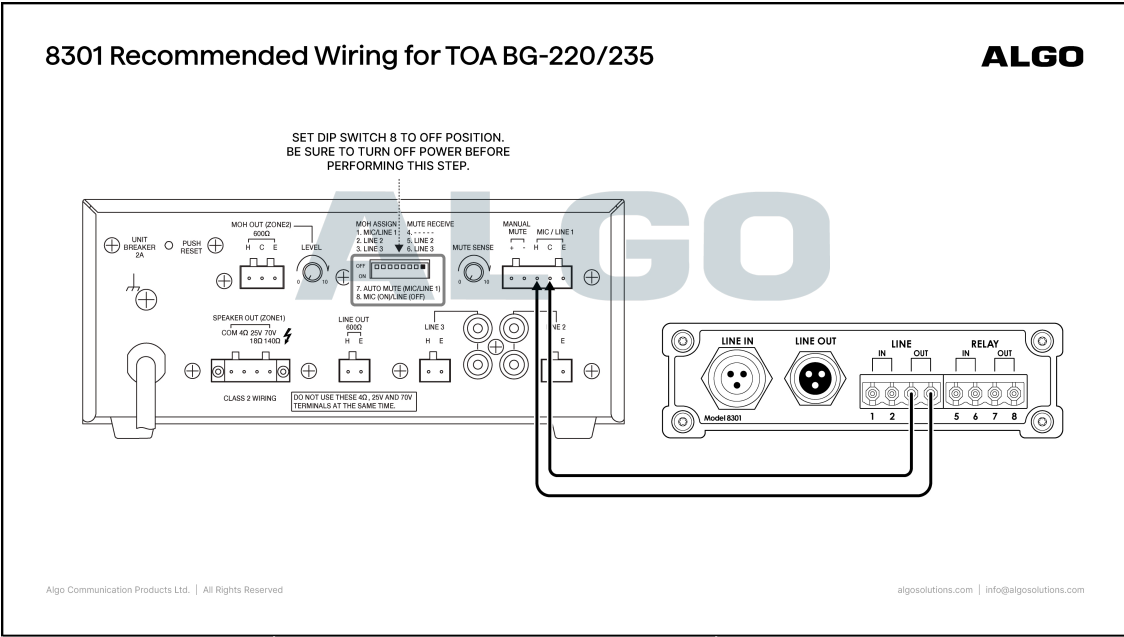
Port Connections:	Algo	TOA
Amplifier Product:	TOA BG-115/130	
• Line Out (3, 4) • Relay Out (7, 8)	• MIC/TEL (Com, Hot) • Mute (G, /)	
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms)	

TOA BG-115/130 with 8312

Port Connections:	Algo	TOA
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	TOA BG-115/130	
• PAGE AUDIO OUT • PAGE RELAY	• MIC/TEL (Com, Hot) • Mute (G, /)	

Port Connections:	Algo	TOA
Notes:	On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

TOA BG-220/235 with 8301



Port Connections:	Algo	TOA
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	TOA BG-220/235	

Port Connections:	Algo	TOA
Line Out (3, 4)	MIC/LINE 1 (H, C)	
Notes:	- On the TOA amplifier, set DIP switch 8 to the OFF position and be sure to turn off the power before performing this step. - On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to -10dBm 600 ohm (0.245 Vrms)	

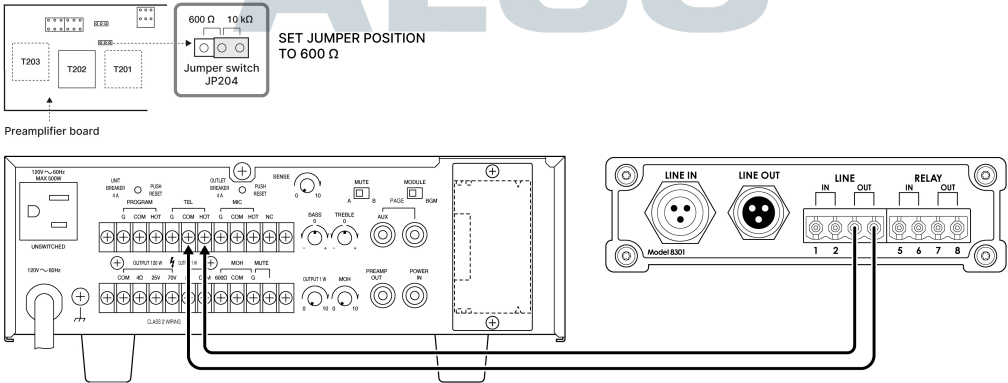
TOA BG-220/235 with 8312

Port Connections:	Algo	TOA
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	TOA BG-220/235	
PAGE AUDIO OUT	MIC/LINE 1 (H, C)	

Port Connections:	Algo	TOA
Notes:	- On the TOA amplifier, set DIP switch 8 to the OFF position and be sure to turn off the power before performing this step. - On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to -10dBm 600 ohm (0.245 Vrms).	

TOA BG-1015/1030/1060/1120 with 8301

8301 Recommended Wiring for TOA BG-1015/1030/1060/1120



Algo Communication Products Ltd. | All Rights Reservedalgosolutions.com | info@algosolutions.com

Port Connections:	Algo	TOA
Algo Product:	8301 IP Paging Adapter & Scheduler	

Port Connections:	Algo	TOA
Amplifier Product:	TOA BG-1015/1030/1060/1120	
• Line Out (3, 4)	• MIC/LINE 1 (H, C)	
Notes:	• TOA Amp: The impedance is set from factory to 10 kΩ. To switch to 600 Ω, change the position of the unit's internal jumper switch JP204 as per the diagram below. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms)	

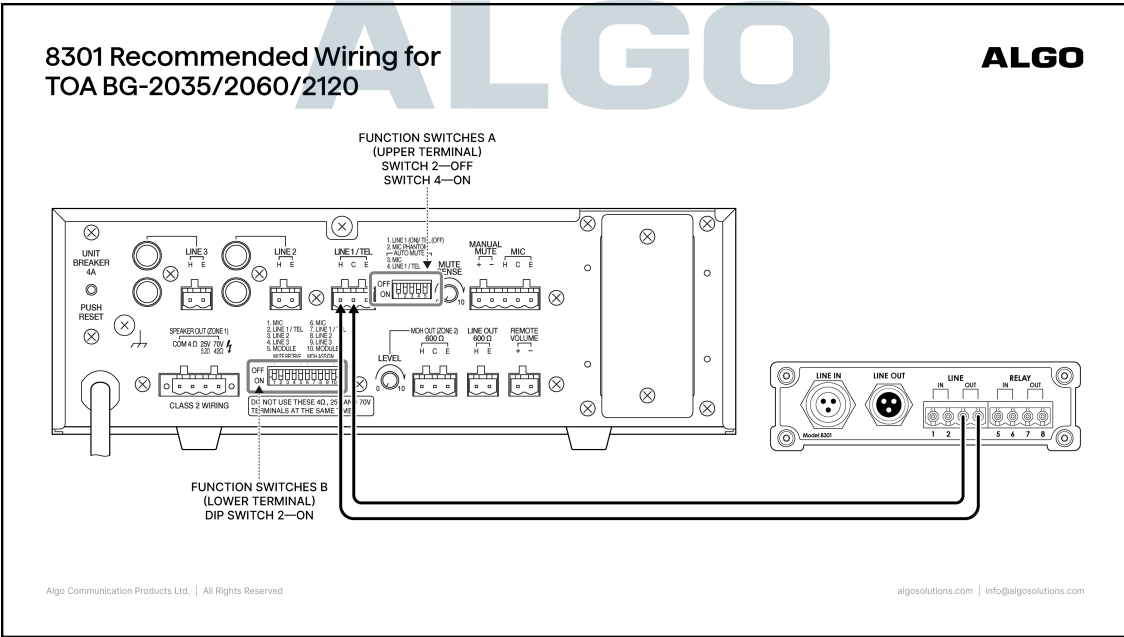
ALGO

TOA BG-1015/1030/1060/1120 with 8312 ^

Port Connections:	Algo	TOA
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	TOA BG-1015/1030/1060/1120	
• PAGE AUDIO OUT	• MIC/LINE 1 (H, C)	

Port Connections:	Algo	TOA
Notes:	• TOA Amp: The impedance is set from factory to 10 kΩ. To switch to 600 Ω, change the position of the unit's internal jumper switch JP204 as per the diagram below. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

TOA BG-2035/2060/2120 with 8301



Port Connections:	Algo	TOA
Algo Product:	8301 IP Paging Adapter & Scheduler	

Port Connections:	Algo	TOA
Amplifier Product:	TOA BG-2035/2060/2120	
• Line Out (3, 4)	• Line 1/TEL (H, C)	
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to -20dBm 600 ohm (0.077 Vrms) Set the DIP switches as follows: • Function Switches A (upper terminal) • Switch 2 – Off • Switch 4 – On • Function Switches B (lower terminal) • DIP Switch 2 – On	

TOA BG-2035/2060/2120 with 8312

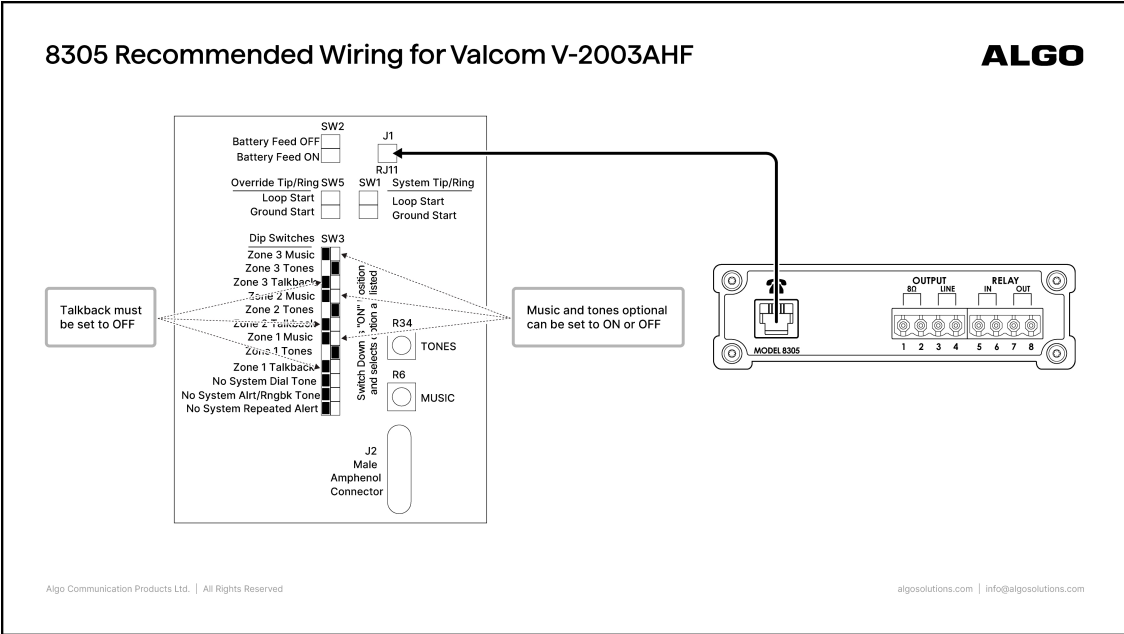
Port Connections:	Algo	TOA
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	TOA BG-2035/2060/2120	

Port Connections:	Algo	TOA
• PAGE AUDIO OUT	• Line 1/TEL (H, C)	
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level. Set the DIP switches as follows: • Function Switches A (upper terminal) • Switch 2 – Off • Switch 4 – On • Function Switches B (lower terminal) • DIP Switch 2 – On	

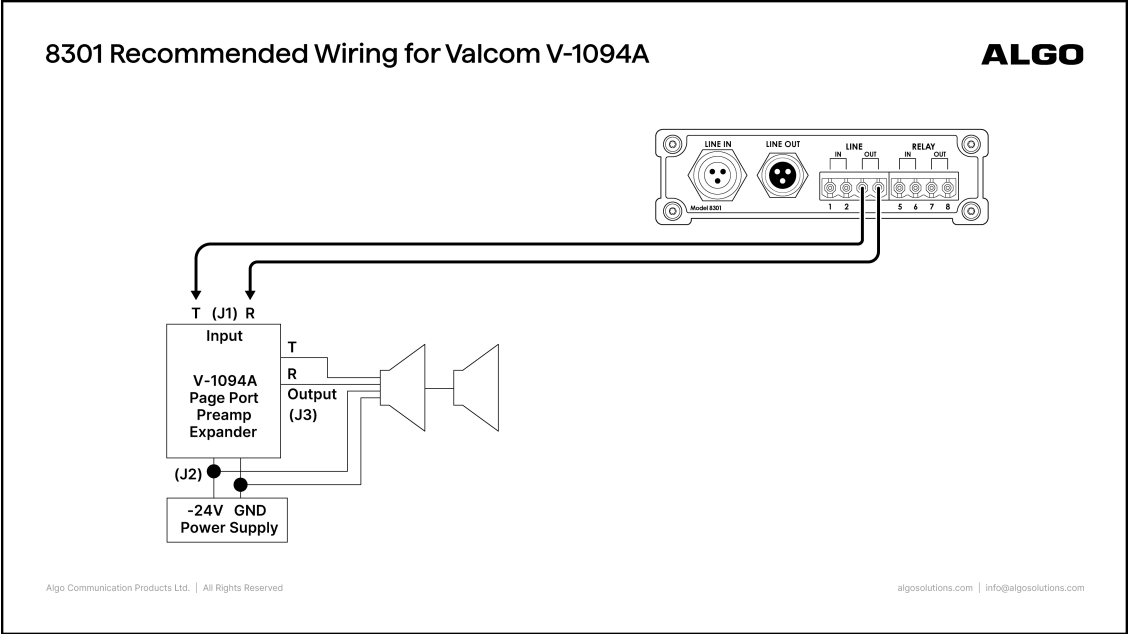
ALGO

Valcom 2003AHF with 8305





Valcom V-1094A with 8301

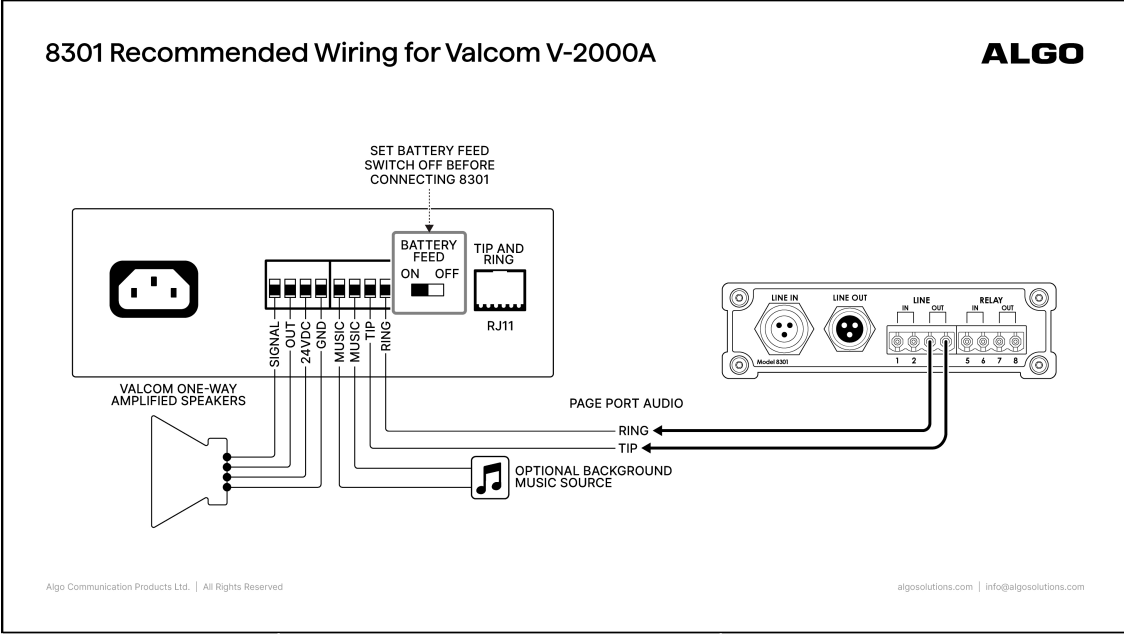


Port Connections:	Algo	Valcom
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Valcom V-1094A	
• Line Out (3, 4)	• J1 Input (T, R)	
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms)	

Valcom V-1094A with 8312

Port Connections:	Algo	Valcom
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Valcom V-1094A	
• PAGE AUDIO OUT	• J1 Input (T, R)	
Notes:	On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Valcom V-2000a with 8301

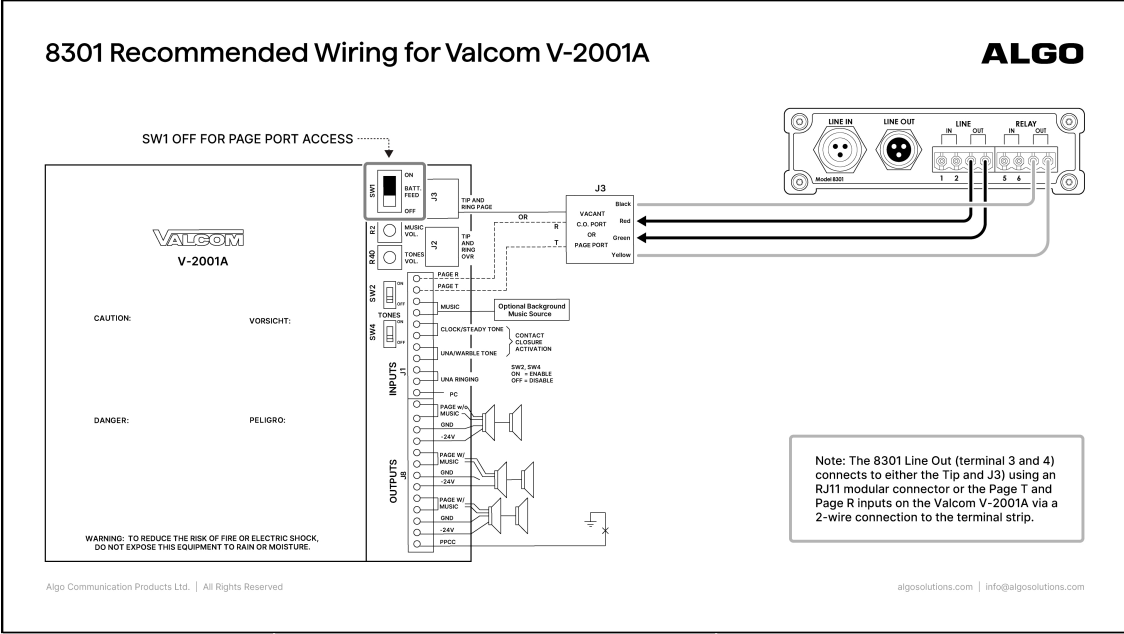


Port Connections:	Algo	Valcom
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Valcom V-2000a	
• Line Out (3, 4)	• Ring, TIP	
Notes:	• Set the Battery Feed switch off before connecting the 8301. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to -10dBm 600 ohm (0.245 Vrms)	

Valcom V-2000a with 8312

Port Connections:	Algo	Valcom
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Valcom V-2000a	
• PAGE AUDIO OUT	• Ring, TIP	
Notes:	• Set the Battery Feed switch off before connecting the 8312. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level.	

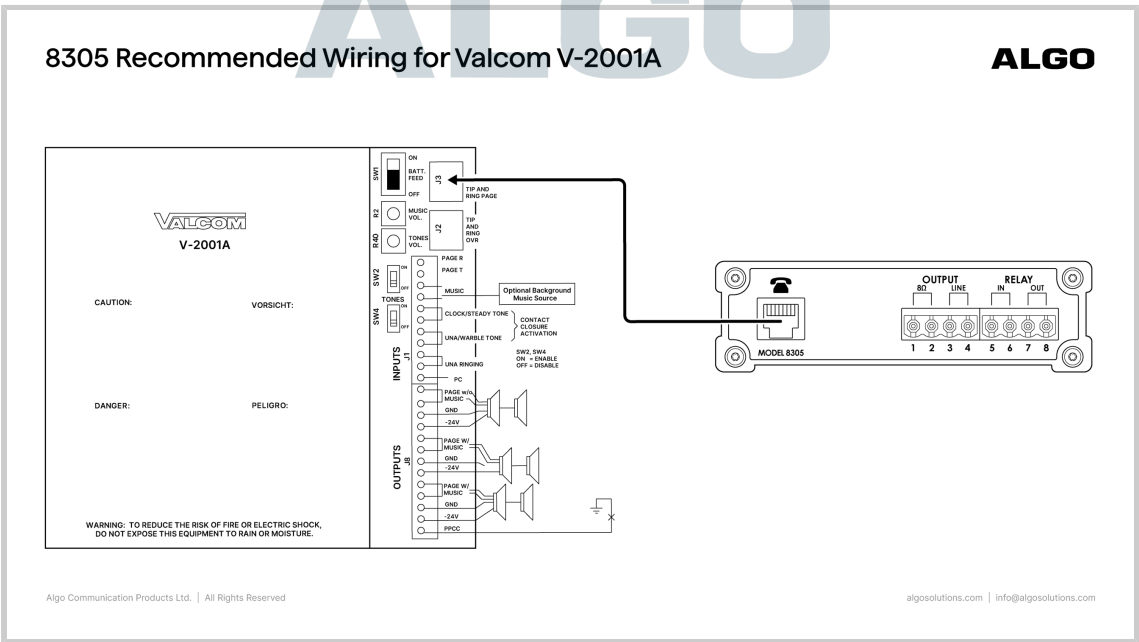
Valcom V-2001a with 8301



Port Connections:	Algo	Valcom
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Valcom V-2001a	
	• Line Out (3, 4) • Relay Out (7, 8)	• J3 - Red, Green • J3 - Black, Yellow

Port Connections:	Algo	Valcom
Notes:	- On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to -10dBm 600 ohm (0.245 Vrms) - The 8301 Line Out (terminal 3 and 4) connects to either the Tip and J3) using an RJ11 modular connector or the Page T and Page R inputs on the Valcom V-2001A via a 2-wire connection to the terminal strip. - Sw1 Off for Page Port Access	

Valcom V-2001a with 8305



Port Connections:	Algo	Valcom
Algo Product:	8305 Multi-Interface IP Paging Adapter	

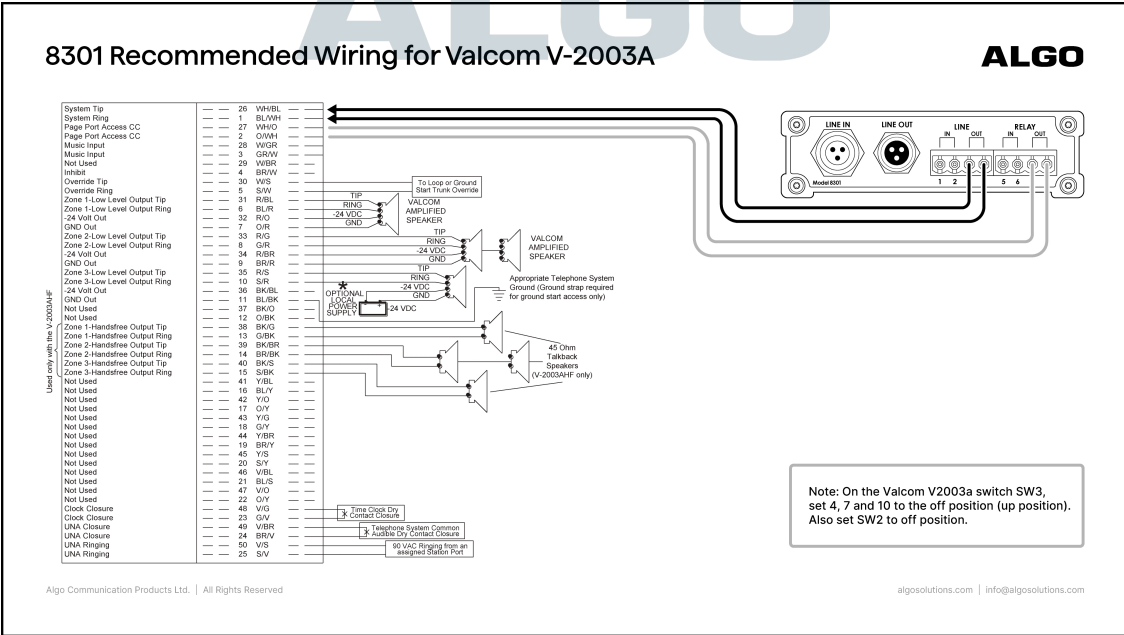
Port Connections:	Algo	Valcom
Amplifier Product:	Valcom V-2001a	
Telephone port	J3	
Notes:	• Set SW1 BATT.FEED to up (on) • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Valcom V-2001a with 8312

Port Connections:	Algo	Valcom
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Valcom V-2001a	
• PAGE AUDIO OUT • PAGE RELAY	• J3 - Red, Green • J3 - Black, Yellow	

Port Connections:	Algo	Valcom
Notes:	- On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level. - The 8312 PAGE AUDIO OUT (terminal 3 and 4) connects to either the Tip and J3) using an RJ11 modular connector or the Page T and Page R inputs on the Valcom V-2001A via a 2-wire connection to the terminal strip. - Sw1 Off for Page Port Access	

Valcom V-2003a with 8301



Port Connections:	Algo	Valcom
Algo Product:	8301 IP Paging Adapter & Scheduler	

Port Connections:	Algo	Valcom
Amplifier Product:	Valcom V-2003a	
• Line Out (3, 4) • Relay Out (7, 8)	• 26 WH/BL, 1 BL/WH • 27 WH/O, 2 O/WH	
Notes:	• On the Valcom V2003a switch SW3, set 4, 7 and 10 to the off position (up position). Also set SW2 to off position. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to -10dBm 600 ohm (0.245 Vrms) • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

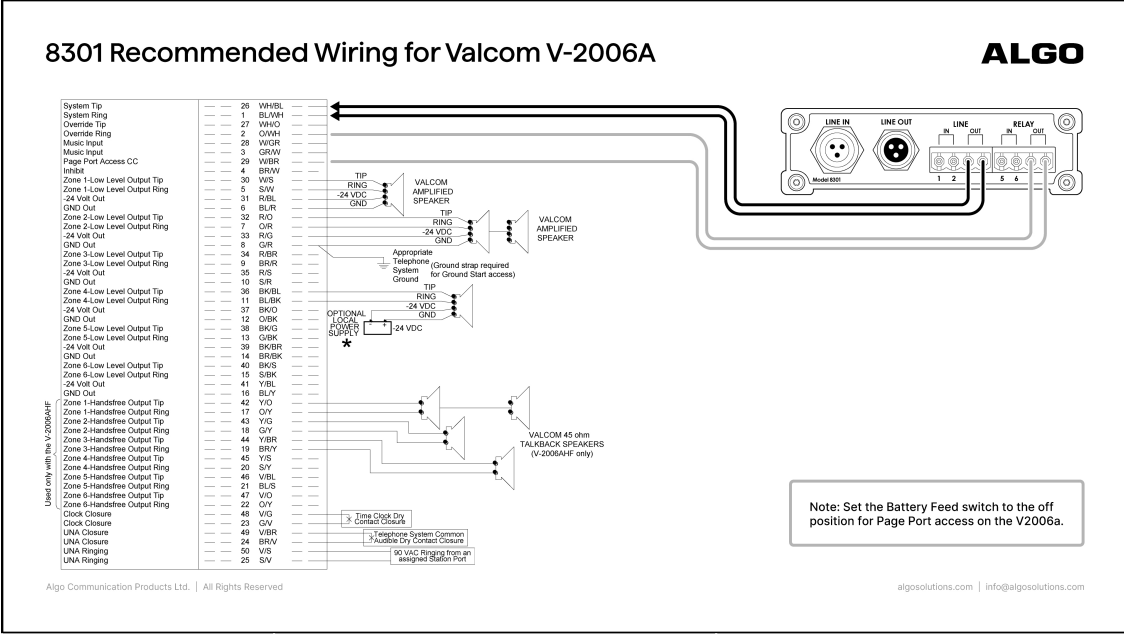
Valcom V-2003a with 8312

Port Connections:	Algo	Valcom
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Valcom V-2003a	

Port Connections:	Algo	Valcom
• PAGE AUDIO OUT • PAGE RELAY	• 26 WH/BL, 1 BL/WH • 27 WH/O, 2 O/WH	
Notes:	• On the Valcom V2003a switch SW3, set 4, 7 and 10 to the off position (up position). Also set SW2 to off position. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level. • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Valcom V-2006a with 8301





Port Connections:	Algo	Valcom
Notes:	• Set SW1 Ground Start or Loop Start Trunk for Override Off. • Set SW2 Ground Start or Loop Start Trunk Access Off. • Set SW6 Battery Feed On. • On the 8305 web interface, go to Basic Settings → Features and set Audio Input Port to Phone or 8Ω Port. • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Valcom V-2006a with 8312

Port Connections:	Algo	Valcom
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Valcom V-2006a	
• PAGE AUDIO OUT • PAGE RELAY	• 26 WH/BL, 1 BL/WH • 2 O/WH, 29 W/BR	

Port Connections:	Algo	Valcom
Notes:	• Set the Battery Feed switch to the off position for page port access on the V2006a • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level. • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Valcom V-2924A with 8301

8301 Recommended Wiring for Valcom V-2924A

ALGO

Block P7 - System Inputs		
26	W/BL	Tip - Attendant Tel
1	BL/W	Ring - Attendant Tel
27	W/O	Common Audible C.C.
2	O/W	Common Audible C.C.
28	W/GR	BGM Input
3	GR/W	BGM Input
29	W/BR	Riot Mode
4	BR/W	Riot Mode
30	W/S	External Tone - Tip
5	S/W	External Tone - Ring
31	R/BL	Clock Activate
6	BL/R	Clock Activate
32	R/O	Clock Enable C. C.
7	O/R	Clock Enable C. C.
33	G/R	Emergency Activate
8	R/G	Emergency Activate
34	R/BR	Emergency Enable C. C.
9	BR/R	Emergency Enable C. C.
35	R/S	Override Page Port - Tip
10	S/R	Override Page Port - Ring
36	BK/BL	Dry Priority Activate
11	BL/BK	Dry Priority Activate
37	BK/O	Inhibit
12	O/BK	Inhibit GND

Group 1

Group 2

Set the Battery Feed switch (SW4) to off for Page Port access.
Note: There will be no talkback via the Valcom V-2924A.

Port Connections:	Algo	Valcom
Algo Product:	8301 IP Paging Adapter & Scheduler	

Port Connections:	Algo	Valcom
Amplifier Product:	Valcom V-2924A	
• Line Out (3, 4)	• 26 W/BL Tip, 1 BL/W Ring	
Notes:	• Set the Battery Feed switch (SW4) to off for Page Port access • Note there will be no talkback via the Valcom V-2924A. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to -10dBm 600 ohm (0.245 Vrms) • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

Valcom V-2924A with 8312 ^

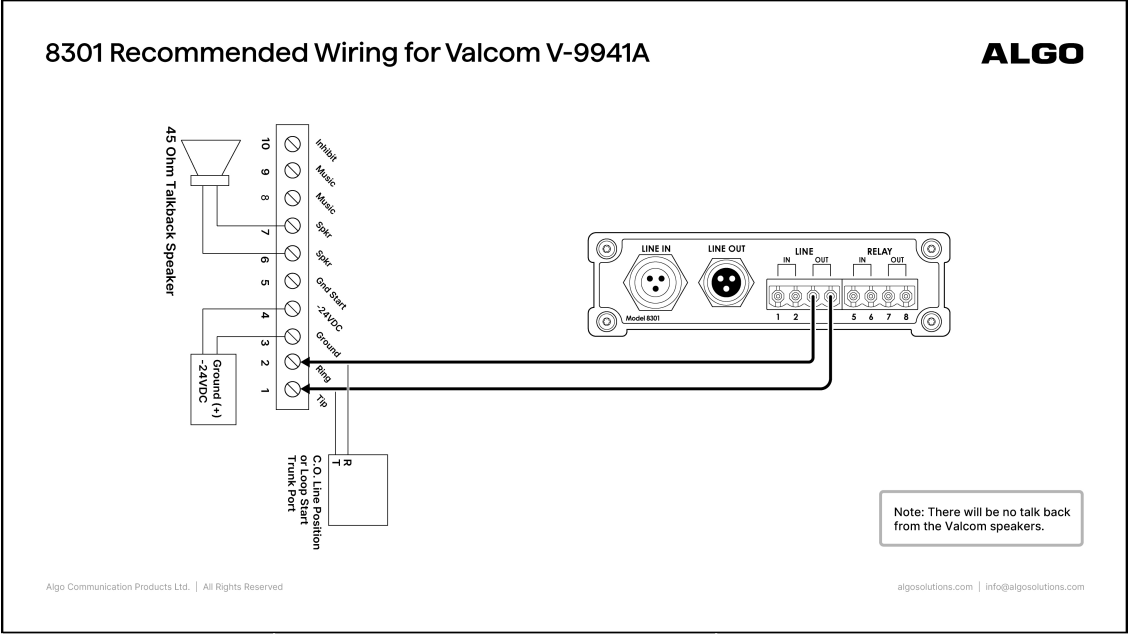
Port Connections:	Algo	Valcom
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Valcom V-2924A	

Port Connections:	Algo	Valcom
• PAGE AUDIO OUT	• 26 W/BL Tip, 1 BL/W Ring	
Notes:	• Set the Battery Feed switch (SW4) to off for Page Port access • Note there will be no talkback via the Valcom V-2924A. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level. • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	

ALGO

Valcom V-9941A with 8301



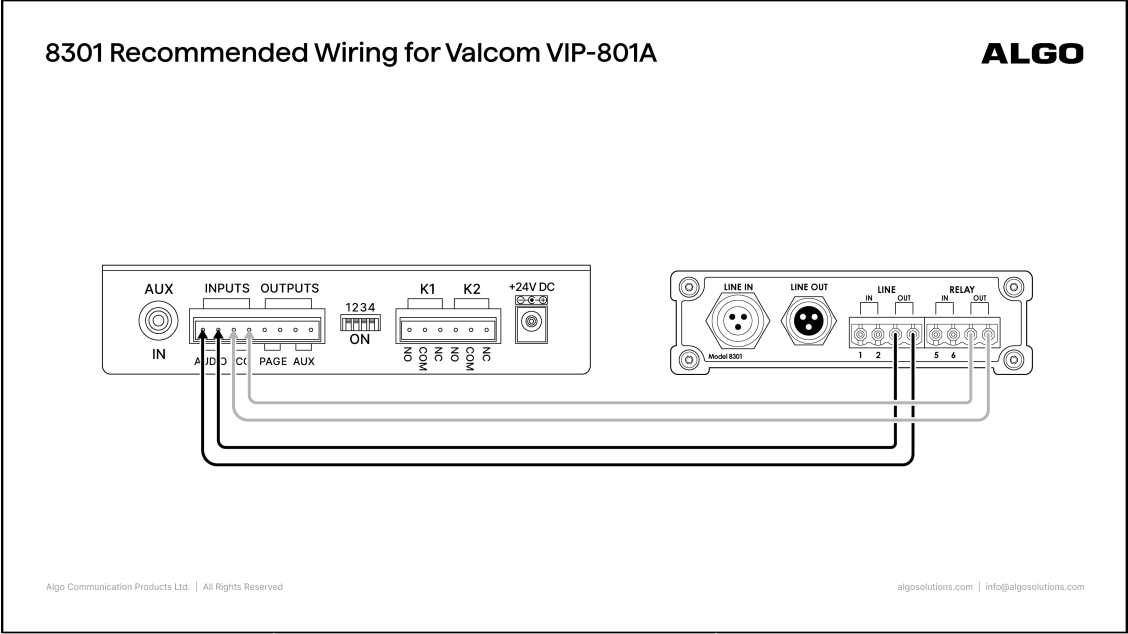


Port Connections:	Algo	Valcom
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Valcom V-9941A	
• Line Out (3, 4)	• Ring (2), Tip (1)	
Notes:	• Note there will be no talk back from the Valcom speakers. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Valcom V-9941A with 8312

Port Connections:	Algo	Valcom
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Valcom V-9941A	
• PAGE AUDIO OUT	• Ring (2), Tip (1)	
Notes:	• Note there will be no talk back from the Valcom speakers. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Valcom VIP-801A with 8301



Port Connections:	Algo	Valcom
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Valcom VIP-801A	
	• Line Out (3, 4) • Relay Out (7, 8)	• Inputs (Audio) • Inputs (CC)
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to -10dBm 600 ohm (0.245 Vrms).	

Valcom VIP-801A with 8312



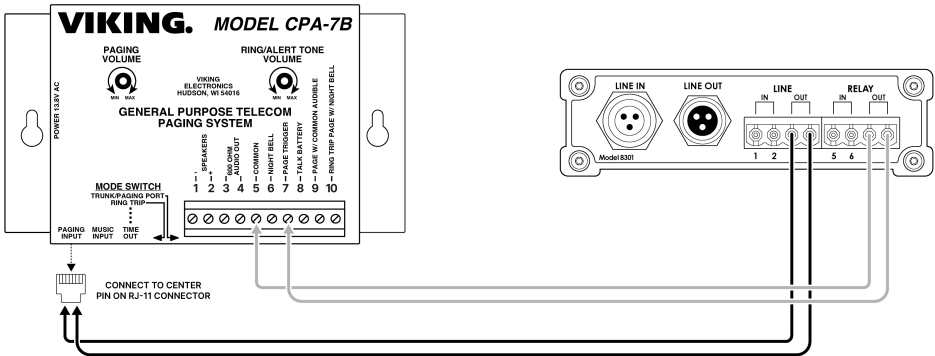
Port Connections:	Algo	Valcom
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Valcom VIP-801A	
• PAGE AUDIO OUT • PAGE RELAY	• Inputs (Audio) • Inputs (CC)	
Notes:	• On the 8312 web interface, go to Basic Settings → Features and set the 'Page Audio' Output Level to -10dBm 600 ohm (0.245 Vrms).	

Viking CPA-7B with 8301



8301 Recommended Wiring for Viking CPA-7B

ALGO



Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port Connections:	Algo	Viking
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Viking CPA-7B	
• Line Out (3, 4) • Relay Out (7, 8)	• Paging Input • 5-Common, 7-Page Trigger	
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

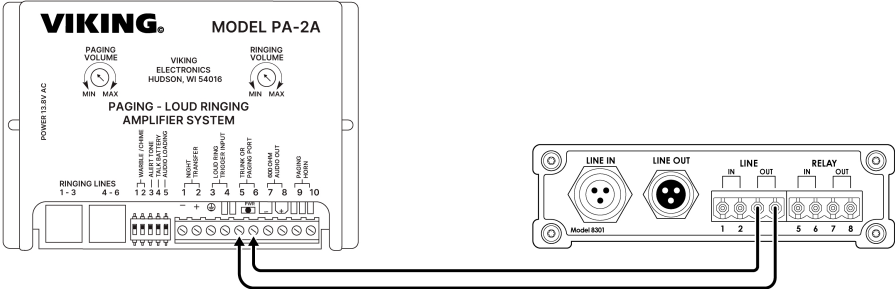
Viking CPA-7B with 8312

Port Connections:	Algo	Viking
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Viking CPA-7B	
• PAGE AUDIO OUT • PAGE RELAY	• Paging Input • 5-Common, 7-Page Trigger	
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Viking PA-2A with 8301

8301 Recommended Wiring for Viking PA-2A

ALGO



Set DIP switch 4 for talk battery to the OFF position on the PA-2A to prevent damaging the 8301.

Algo Communication Products Ltd. | All Rights Reserved

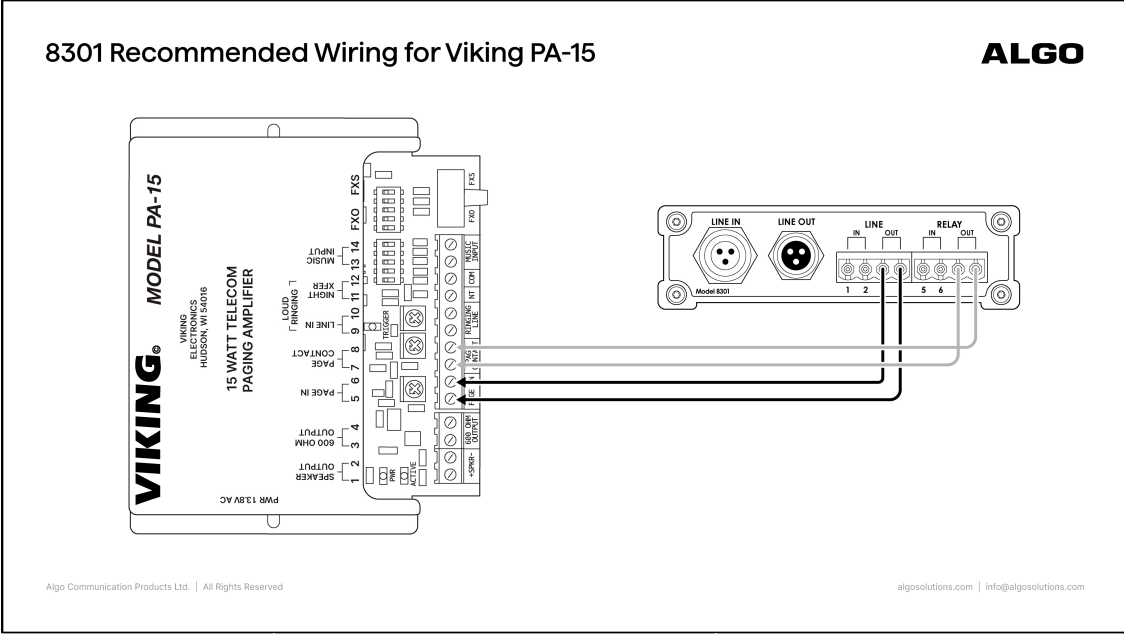
algosolutions.com | info@algosolutions.com

Port Connections:	Algo	Viking
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Viking PA-2A	
• Line Out (3, 4)	• Trunk or Paging Port (5, 6)	
Notes:	• Set DIP switch 4 for talk battery to the OFF position on the PA-2A to prevent damaging the 8301. • On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Viking PA-2A with 8312

Port Connections:	Algo	Viking
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Viking PA-2A	
• PAGE AUDIO OUT	• Trunk or Paging Port (5, 6)	
Notes:	• Set DIP switch 4 for talk battery to the OFF position on the PA-2A to prevent damaging the 8312. • On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Viking PA-15 with 8301



Port Connections:	Algo	Viking
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Viking PA-15	
• Line Out (3, 4) • Relay Out (7, 8)	• Page In (5, 6) • Page Contact (7, 8)	
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms).	

Viking PA-15 with 8312



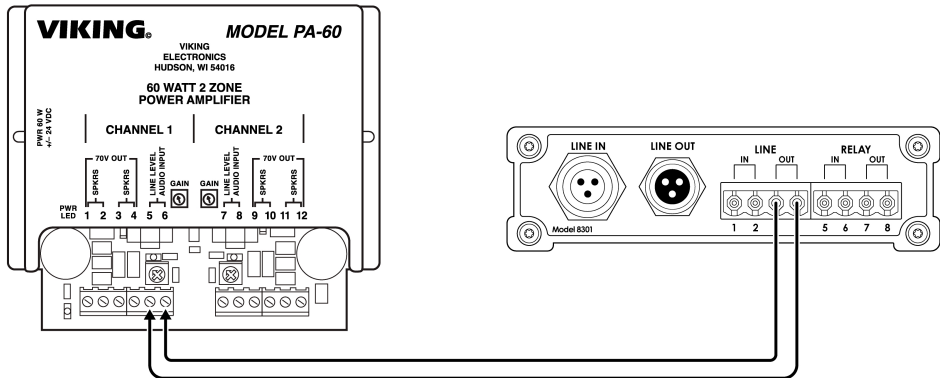
Port Connections:	Algo	Viking
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Viking PA-15	
• PAGE AUDIO OUT • PAGE RELAY	• Page In (5, 6) • Page Contact (7, 8)	
Notes:	• On the 8312 web interface, go to Basic Settings → Features → Audio and set the 'Page Audio' Output Level to 0dBm 600 ohm (0.775 Vrms).	

Viking PA-60 with 8301



8301 Recommended Wiring for Viking PA-60

ALGO



Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port Connections:	Algo	Viking
Algo Product:	8301 IP Paging Adapter & Scheduler	
Amplifier Product:	Viking PA-60	
• Line Out (3, 4)	• Line Level Audio Input (5, 6)	
Notes:	• On the 8301 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms) • If there are speakers connected to both channels then an 8301 per channel will be required. One 8301 can be SIP registered and configured to Multicast to the second for zone paging including All Call.	

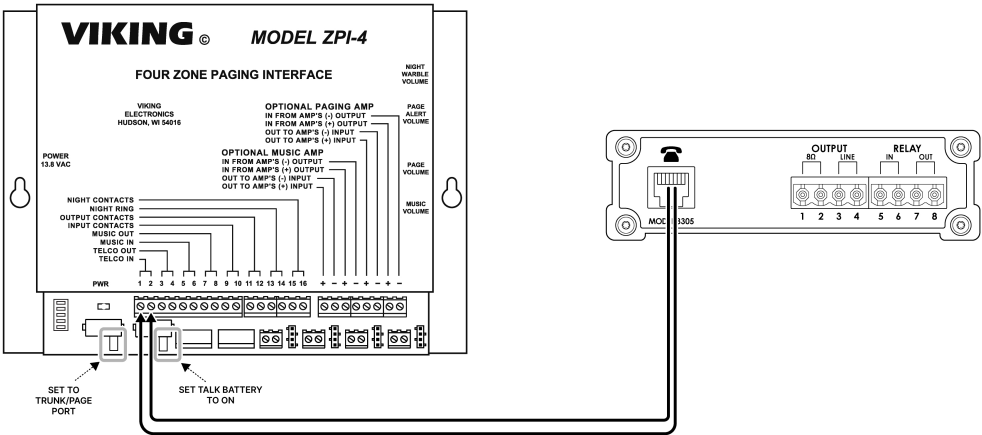
Viking PA-60 with 8312

Port Connections:	Algo	Viking
Algo Product:	8312 Expanded IP Paging Adapter	
Amplifier Product:	Viking PA-60	
• PAGE AUDIO OUT	• Line Level Audio Input (5, 6)	
Notes:	• On the 8312 web interface, go to Basic Settings → Features and set the Line Out Analog Output Level to 0dBm 600 ohm (0.775 Vrms) • If there are speakers connected to both channels, then an 8312 per channel will be required. One 8312 can be SIP registered and configured to Multicast to the second for zone paging including All Call.	

Viking ZPI-4 with 8305

8305 Recommended Wiring for Viking ZPI-4

ALGO



Algo Communication Products Ltd. | All Rights Reserved

algosolutions.com | info@algosolutions.com

Port Connections:	Algo	Viking
Algo Product:	8305 Multi-Interface IP Paging Adapter	
Amplifier Product:	Viking ZPI-4	
• Telephone Port	• Telco in (2, 1)	
Notes:	• On the 8305 web interface, go to Basic Settings → Features and set Analog Output Port/Level to Phone or 8Ω Port. • To play DTMF tones and control the zones, enable Generate In-Band DTMF Tones under Advanced Settings → Advanced Audio.	