

### IP paging adapter and scheduler for legacy communications systems

The Algo 8305 Multi-Interface IP Paging Adapter is designed to bridge legacy paging systems and IP environments.



#### INTEGRATE LEGACY WITH MODERN PAGING SYSTEMS

The 8305 has three key connection points: a telephone port that emulates an analog telephone, an 8  $\Omega$  output that can connect to self-amplified speakers, and a line output. As a SIP-compliant device, the 8305 makes it possible to connect existing legacy paging systems to VoIP or UCaaS platforms. The 8305 is also multicast-capable enabling legacy systems to be used alongside IP devices.

#### SCHEDULE AND AUTOMATE

Using the web interface, you can schedule announcements to play automatically. Set up is easy no matter if you want to schedule single or multiple events such as bells, safety reminders, or holiday announcements. Additionally, emergency alerts can be activated by dialing a set extension or via a device, like a button, connected to the relay input to provide contact closure.

#### SCALE WITH EASE

The 8305 is a PoE device that uses SIP, multicast, APIs, and smart relays to connect diverse paging systems, services, and devices. This gives you further control of how your communication system operates and simplifies the process of growing your paging system alongside facility upgrades.

#### KEY FEATURES

- SIP-compliant, PoE
- Secure SIP using TLS and SRTP
- Multicast capable
- Telephone port that emulates an analog telephone (connects to paging systems that provide a talk battery pair)
- 8  $\Omega$  output port (connect to self-amplified speakers)
- Schedule bells, tones, and automated announcements
- Wideband HD audio (G.722 voice codec) for high intelligibility speech
- Configure up to 50 page zones

## INPUT/OUTPUT

<b>TELEPHONE PORT</b>	Emulates an analog phone. Capable of ring detection and on-hook/off-hook
<b>8 Ω OUTPUT</b>	Balanced and isolated wire pair output to external self-amplified speakers. Load impedance of 2 kΩ down to 8 Ω*. Max output of +3 dBm @ 8 Ω, +1.5 dB higher at 2 kΩ  *Intended use is nominal 2 kΩ or 1 kΩ self-amplified speakers connected in parallel to a total minimum resistance of 8 Ω
<b>LINE OUT</b>	Balanced and isolated wire pair output to external amplifier. Output level defined using web interface. Polarity independent.
<b>RELAY INPUT</b>	Normally open or normally closed dry contact with supervision. Compatible with Algo 1202 Call Button, 1203 Call Switch, 1204 Volume Control or EOL resistor termination.
<b>RELAY OUTPUT</b>	Max 30 V 50 mA (normally open)
<b>AUX OUT</b>	3.5 mm jack for analog line level input for compatible PC speakers or headset. Non isolated.

## POWER

<b>POWER SOURCE</b>	PoE (IEEE 802.3af Class 0) 48 V, 15.4 W
<b>MAX POWER (AT DEVICE)</b>	4 W
<b>IDLE POWER</b>	2 W

## SIP

<b>SIP EXTENSIONS</b>	<ul style="list-style-type: none"> <li>• 50 Page</li> <li>• 10 Emergency Alert</li> <li>• 10 Ring</li> </ul>
<b>SIP SIGNALLING/ TRANSPORT PROTOCOLS</b>	UDP, TCP, RTP
<b>SECURITY</b>	TLS, SRTP, Mutual Authentication
<b>AUDIO CODECS</b>	G.711 u-law, G.711 A-law, G.722 Wideband

## MULTICAST

<b>RTP MULTICAST</b>	Send and Receive 50 Zones
<b>AUDIO CODECS</b>	G.711 u-law, G.711 A-law, G.722 Wideband, Opus Fullband

## COMPATIBILITY

<b>THIRD-PARTIES</b>	<ul style="list-style-type: none"> <li>• RESTful API</li> <li>• Poly Group Page™</li> <li>• Singlewire InformaCast* (additional license required)</li> <li>• Intrado Revolution*</li> <li>• Microsoft Teams*</li> </ul>
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## CONFIGURATION & PROVISIONING

<b>CONFIGURATION</b>	Web interface or provisioning server
<b>WEB INTERFACE</b>	HTTP, HTTPS
<b>PROVISIONING</b>	<ul style="list-style-type: none"> <li>• TFTP, FTP, HTTP, HTTPS</li> <li>• DHCP Options 66, 150, 160</li> <li>• Reboot via SIP 'check-sync'</li> </ul>
<b>ZTP</b>	Supported
<b>SUPERVISION</b>	Compatible with Algo Device Management Platform (ADMP), Algo 8300 IP Controller, any third-party SNMP monitoring software, and RTCP

## NETWORKING

<b>NETWORKING</b>	IPv4, IPv6, DHCP, VLAN, MDNS
<b>LINK LAYER</b>	LLDP, CDP
<b>SECURITY</b>	IEEE 802.1X
<b>QOS</b>	DSCP
<b>NAT</b>	STUN, TURN, CRLF Keep Alive, SIP Outbound
<b>ADDRESS RESOLUTION</b>	DNS, SRV Record
<b>REDUNDANCY</b>	Secondary and tertiary SIP server
<b>TIME</b>	NTP Server (up to four)

## AUDIO

<b>AUDIO MEMORY &amp; FORMAT</b>	1 GB audio storage for WAV or MP3 files
<b>AUDIO CONTROLS</b>	Volume, AGC, Latency, LF Cut
<b>ANTI-FEEDBACK DELAY</b>	Cache to memory and release
<b>AUDIO DELAY</b>	Programmable 1-1000 ms synchronization delay

## THRESHOLD

	ACTIVE	IDLE	TAMPER
<b>NORMALLY OPEN</b>	> 4 mA	< 4 mA	N/A
<b>NORMALLY OPEN WITH SUPERVISION</b>	> 20 mAv	4-20 mA	< 4 mA
<b>NORMALLY CLOSED</b>	< 4 mA	> 4 mA	N/A
<b>NORMALLY CLOSED WITH SUPERVISION</b>	4-20 mA	> 20 mA	< 4 mA

**NOMINAL 12 V SOURCE, CURRENT LIMITED TO 40 MA** Typical supervision resistor value = 1 k Ohm

## ENVIRONMENTAL & MECHANICAL

<b>ENVIRONMENTAL</b>	0 to +40 deg C (32 to 104 deg F); 10-95% RH non-condensing. Dry indoor locations only.
<b>DIMENSIONS (PRODUCT)</b>	6.75" x 4.3" x 1.18" (17.2 cm x 10.9 cm x 3.0 cm)
<b>WEIGHT (PRODUCT)</b>	0.9 lbs (0.4 kg)
<b>WEIGHT (SHIPPING)</b>	1.5 lbs (0.7 kg)
<b>MOUNTING</b>	Snap mounting bracket included

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

FRONT



BACK



### ORDERING CODES:

- 8305** Multi-Interface IP Paging Adapter
- 8305-IC** InformaCast Multi-Interface IP Paging Adapter

### COMPATIBLE ACCESSORIES:

- 1202** Call Button
- 1203** Call Switch
- 1204** Volume Control

