

## IP Display Speaker with LCD Screen for Visual and Audible Notification

With a 15.6" LCD display, high-intelligibility speakers, and high visibility LED flashers, the 8410 can produce highly attention-grabbing visual and audible messages for emergency and day-to-day events.



The 8410 IP Display Speaker is a SIP-compliant and multicast-capable PoE network endpoint designed to deliver clear audio and visual communication. Comprised of three core components – a 15.6" LCD display, high-intelligibility speakers, and high visibility LED flashers, the 8410 offers flexible paging, notification, and alerting capabilities.

The primary element of the 8410 is the LCD display. With unlimited visual possibilities, the screen can produce scrolling text, flashing announcements, full-color images, or key data points such as dates and times. Combined with LED backlighting and wide-angle viewing, the visual display can be seen from anywhere in a room or along a hallway. It can be customized to complement an audio announcement or to bring communication to an audio-less environment.

For audible alerting, the 8410 offers similar functionality and voice quality as any Algo speaker, delivering wideband HD audio for clear voice communication and attention-grabbing audible alerting. An embedded microphone is included to enable ambient noise response and talkback capabilities.

The LED flashers provide additional awareness for important messages. When no announcement or notification is needed, a variety of messages can be displayed, including images, text, or an NTP clock.

### FEATURES

- 15.6" wide-angle viewable full-color LCD display for off-axis visibility to display digital or analog NTP clock, scrolling text, and custom images
- Wideband HD audio (G.722 voice codec)
- Secure SIP using TLS and SRTP
- Ambient noise response to automatically adjust audio output level
- Two-way talkback
- Multicast send and receive
- Four-color LED flashers
- PoE+ powered (IEEE 802.3at) and PoE++ powered (802.3bt)
- Smart relay input for accessories

### APPLICATIONS

- Voice paging
- Emergency and safety notifications
- Visual notification (digital signage and four-color LED flashers)
- Zoned paging and notifications
- Suitable environments include: classroom, office, reception area, workshop, cafeteria.
- The 8410 is ideal for single-sided applications (for dual-sided application, see the 8420)

POWER	
POWER SOURCE	Recommended PoE++ (IEEE 802.3bt Type 3) Max 60 W Optional with reduced performance PoE+
MAX POWER (AT DEVICE)	51 W
SIP	
SIP EXTENSIONS	<ul style="list-style-type: none"> <li>• 50 Page (Capable of talkback when appropriate speaker &amp; microphone connected)</li> <li>• 10 Emergency Alert</li> <li>• 10 Ring</li> </ul>
SIP SIGNALLING/ TRANSPORT PROTOCOLS	UDP, TCP, RTP
SECURITY	TLS, SRTP, Mutual Authentication
AUDIO CODECS	G.711 u-law, G.711 A-law, G.722 Wideband
MULTICAST	
RTP MULTICAST	Send and Receive 50 Zones
AUDIO CODECS	G.711 u-law, G.711 A-law, G.722 Wideband, Opus Fullband
COMPATIBILITY	
THIRD PARTIES	<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>
CONFIGURATION & PROVISIONING	
CONFIGURATION	Web interface or provisioning server
WEB INTERFACE	HTTP, HTTPS
PROVISIONING	<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>
ZTP	Supported
SUPERVISION	Compatible with Algo Device Management Platform (ADMP), Algo 8300 IP Controller, any third-party SNMP monitoring software, and RTCP
NETWORKING	
NETWORKING	IPv4, IPv6, DHCP, VLAN, MDNS
LINK LAYER	LLDP, CDP
SECURITY	IEEE 802.1X
QOS	DSCP
NAT	STUN, TURN, CRLF Keep Alive, SIP Outbound
ADDRESS RESOLUTION	DNS, SRV Record
REDUNDANCY	Secondary and tertiary SIP server
TIME	NTP Server (up to four)
AUDIO	
SPEAKER	3 x Neodymium magnet with polypropylene cone
SPL	106 dBA at 1 m
MICROPHONE	Omnidirectional - talkback and ambient noise monitoring
AUDIO CONTROLS	Volume, AGC, Latency, LF Cut
ANTI-FEEDBACK DELAY	Cache to memory and release
AUDIO DELAY	Programmable 1-1000 ms synchronization delay (in multicast receiver mode)
MAX AUDIO POWER	8 W
VIDEO	
LCD VIEWING AREA	<ul style="list-style-type: none"> <li>• 15.6"</li> <li>• 13.5" x 7.6" (34.4 cm x 19.4 cm)</li> </ul>
RESOLUTION	1920 x 1080 @ 60 fps
VIEWING ANGLE	88 deg (horizontal and vertical)
COLOR	16.7 M
CONTRAST	1000:1

MEMORY AND FORMAT	
STORAGE FOR AUDIO FILES AND IMAGES	12 GB storage for audio (WAV or MP3) and images (JPG and PNG)

INPUT/OUTPUT	
RELAY INPUT	Normally open or normally closed dry contact with supervision. Algo 1202 Call Button, 1203 Call Switch, 1204 Volume Control, EOL termination.

RELAY INPUT CURRENT DRAW DETECTION			
THRESHOLD	ACTIVE	IDLE	TAMPER
NORMALLY OPEN	> 4 mA	< 4 mA	N/A
NORMALLY OPEN WITH SUPERVISION	> 20 mAv	4-20 mA	< 4 mA
NORMALLY CLOSED	< 4 mA	> 4 mA	N/A
NORMALLY CLOSED WITH SUPERVISION	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	
ENVIRONMENTAL	0 to +40 deg C (32 to 104 deg F); 10-95% RH non-condensing. Dry indoor locations only.

DIMENSIONS (PRODUCT)	19.21" x 9.33" x 1.63" (48.8 cm x 23.7 cm x 4.14 cm)
WEIGHT (PRODUCT)	5.85 lbs (2.7 kg)
WEIGHT (PRODUCT WITH BRACKET)	8.05 lbs (3.7 kg)
WEIGHT (SHIPPING)	9.2 lbs (4.2 kg)
MOUNTING	Surface mount bracket

COMPLIANCE	
RoHS, FCC Class A, CSA/UL (USA & Canada)	

FRONT



BACK



### ORDERING CODES:

- 8410** IP Display Speaker
- 8410-IC** InformaCast IP Display Speaker

### COMPATIBLE ACCESSORIES:

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

