

IP Dual-Sided Display Speaker for Visual and Audible Notification

With two-sided 15.6" LCD display screens, 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 along hallways, corridors, and large open spaces.



The 8420 IP Dual-Sided Display Speaker is a SIP-compliant and multicast-capable PoE endpoint designed to deliver two-sided audio and visual communication. Comprised of three core components – a 15.6" LCD display, high-intelligibility speakers, and high visibility LED flashers, the 8420 is dual-sided, each side mirroring the other to offer two-sided paging, notification, and alerting capabilities.

The primary element of the 8420 is the two opposite-facing LCD display screens. With unlimited visual possibilities, the screens 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 8420 delivers 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

- Two 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
- 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
- Zoned paging and notifications
- Suitable environments include: hallway, corridor, reception area, workshop, cafeteria
- The 8420 is ideal for dual-sided applications (for single-sided application, see the 8420)
- Wall and ceiling-mount orientation available via included bracket

MAX POWER (AT DEVICE) 71.3 W SIP SIP SIP EXTENSIONS - 50 Page (Capable of talkback when appropriate speaker & microphone connected) - 10 Emergency Alert - 10 Ring SIP SIGNALLING/ TRANSPORT PROTOCOLS 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 RESTful API - Poly Group Page™ - Singlewire InformaCast® (additional license required) - Intrado Revolution® - Microsoft Teams® CONFIGURATION Web interface or provisioning server WEB INTERFACE HTTP, HTTPS PROVISIONING - TFTP, FTP, HTTP, HTTPS - DHCP Options 66, 150, 160 - Reboot via SIP 'check-sync' ZTP Supported	POWER SOURCE	Recommended PoE++ (IEEE 802.3bt Type 4) Max 99.9 W		
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REDUNDANCY Secondary and tertiary SIP server TIME NTP Server (up to four) AUDIO SPEAKER 6 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 16 W VIDEO LCD VIEWING AREA • Two 15.6" screens • 13.5" x 7.6" (34.4 cm x 19.4 cm) RESOLUTION 1920 x 1080 @ 60 fps VIEWING ANGLE 88 deg (horizontal and vertical)	NAT	STUN, TURN, CRLF Keep Alive, SIP Outbound		
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ANTI-FEEDBACK DELAY Cache to memory and release AUDIO DELAY Programmable 1-1000 ms synchronization delay (in multicast receiver mode) MAX AUDIO POWER 16 W VIDEO LCD VIEWING AREA Two 15.6" screens 13.5" x 7.6" (34.4 cm x 19.4 cm) RESOLUTION 1920 x 1080 @ 60 fps VIEWING ANGLE 88 deg (horizontal and vertical)	MICROPHONE	Omnidirectional - talkback and ambient noise monitoring		
AUDIO DELAY Programmable 1-1000 ms synchronization delay (in multicast receiver mode) MAX AUDIO POWER 16 W VIDEO LCD VIEWING AREA • Two 15.6" screens • 13.5" x 7.6" (34.4 cm x 19.4 cm) RESOLUTION 1920 x 1080 @ 60 fps VIEWING ANGLE 88 deg (horizontal and vertical)	AUDIO CONTROLS	Volume, AGC, Latency, LF Cut		
receiver mode) MAX AUDIO POWER 16 W VIDEO LCD VIEWING AREA • Two 15.6" screens • 13.5" x 7.6" (34.4 cm x 19.4 cm) RESOLUTION 1920 x 1080 @ 60 fps VIEWING ANGLE 88 deg (horizontal and vertical)	ANTI-FEEDBACK DELAY	Cache to memory and release		
VIDEO LCD VIEWING AREA • Two 15.6" screens • 13.5" x 7.6" (34.4 cm x 19.4 cm) RESOLUTION 1920 x 1080 @ 60 fps VIEWING ANGLE 88 deg (horizontal and vertical)	AUDIO DELAY			
LCD VIEWING AREA • Two 15.6" screens • 13.5" x 7.6" (34.4 cm x 19.4 cm) RESOLUTION 1920 x 1080 @ 60 fps VIEWING ANGLE 88 deg (horizontal and vertical)		16 W		
VIEWING ANGLE 88 deg (horizontal and vertical)				
VIEWING ANGLE 88 deg (horizontal and vertical)	LOD VIEWING ANEA			
	RESOLUTION	1920 x 1080 @ 60 fps		

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	Typical supervision	on resistor value = 1	k Ohm	

ENVIRONMENTAL & MECH	ANICAL
ENVIRONMENTAL & MECH	ANICAL
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 2.93" (48.8 cm x 23.7 cm x 7.4 cm)
WEIGHT (PRODUCT)	9.85 lbs (4.5 kg)
WEIGHT (PRODUCT WITH BRACKET)	11.9 lbs (5.4 kg)
WEIGHT (SHIPPING)	14.3 lbs (6.5 kg)
MOUNTING	Mounting bracket
COMPLIANCE	

 ${\sf RoHS,FCC\ Class\ A,CSA/UL\ (USA\ \&\ Canada),EN60950}$

40 MA

MOUNTING BRACKET, RIGHT VIEW



MOUNTING BRACKET, LEFT VIEW



ORDERING CODES:

8420 IP Dual-Sided Display Speaker

8420-IC InformaCast IP Dual-Sided Display Speaker

COMPATIBLE ACCESSORIES:

1202 Call Button1203 Call Switch1204 Volume Control



CONTRAST