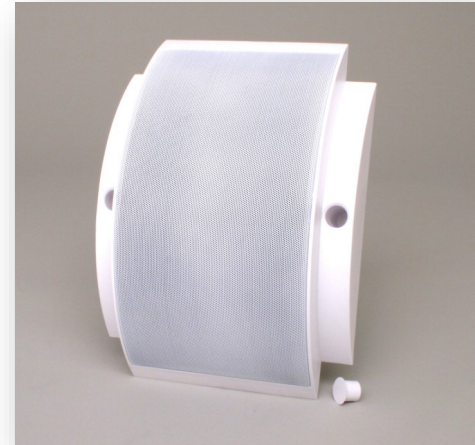The PBC-IP is a full SIP, PoE surface mounted speaker that is easy to install and with its sleek design is suitable for any installation environment. The PBC-IP, with its wide frequency range is the perfect IP speaker for board rooms, lobbies, classrooms, restaurants, or any installation where voice announcements and quality background music is desired.

The PBC-IP is a one-way or two-way speaker (two-way is designated by "-M" extension when ordered) that is ideal for both paging applications and intercom functionality. In addition to a high sensitivity microphone providing unmatched talk-back quality, the PBC-IP includes a variety of features that convert it from a simple IP speaker into a flexible tool.

As standard features, the CCS-IP includes:

- 3 Programmable Logic Control Inputs
- 1 Programmable Output Relay
- Microphone Input, Full-Duplex Hands Free Communication
- Ability To Receive and Switch Between 8 IGMP Audio Streams
- SIP Protocol For Direct Use With VoIP Systems
- Internal HTML Browser-based Programming For Easy Access and Configuration
- Full DSP For Superior Audio Quality and Performance

The logic control inputs on the PBC-IP speaker can be programmed to initiate intercom calls, activate relay contacts anywhere in the system, initiate system functions such as volume control, source selection, and control other systems via 3rd party commands. The on-board output relay can be controlled by any input in the system, logic command, or 3rd party command from anywhere in the network.

The integral DSP (Digital Signal Processor) delivers full control of the audio environment providing the ability to control the sound floor, maximizing performance and enhancing the audio experience.

The PBC-IP speaker is the most flexible and dynamic PoE surface mount speaker on the market and provides features and functionality that is unmatched in the IP speaker market.

SPECIFICATIONS

ELECTRICAL

Power over Ethernet (POE+), IEEE802.3af,
24 VDC power transformer(18~24VDC), minimum power supply: 2A

AUDIO CHARACTERISTICS

Audio Output		Mic Input (IP-M Models Only)	
Dispersion	115° @1kHz	Phantom power	2 VDC
Frequency response	±5 dB @ 110 Hz ~ 20 kHz	Frequency response	±1 dB @ 50 Hz~20 kHz
SPL @ 1w @ 1m	94dB	Input impedance (unbalanced)	1K ohm
Directivity Q factor @ 2kHz	7.1	EIN (Equivalent Input Noise)	-90dBu @ 14dBu gain
		THD+N	0.1 %(50~20 kHz @ 14 dBu gain)

CONTROL INPUT

Type	Euro-block
Mode (analog/TTL)	max. 3.3 VDC
TTL logic input (max.)	HIGH active 3.3 VDC, LOW active 1.2 VDC

CONTACT OUTPUT

Type	Euro-block
Default status	OPEN(N.O.)
Voltage	100 VDC(max.)
Current	0.5A(max.)

INTERCONNECTION

Female RJ45 socket, CAT-5/CAT-6 cables	
Max. cable length	100M

AUDIO

Audio Compression	G.711ulaw, G.711alaw, G.722, G.726-32, G.727-32, PCM16K, MP3

SUPPORTED PROTOCOLS

SIP 2.0(peer and proxy)
IETF SIP(RFC3261)
IETF IGMP version 2(RFC2236)
IETF RTP(RFC1889)

NETWORKING

10/100 Mbps Base TX Ethernet RJ45
Manual or Dynamic Host Configuration Protocol (DHCP) IP address setup
Time and date synchronization using NTP

MECHANICAL & ENVIRONMENTAL

Dimensions (H x W x D)	13" x 9.45" x 3.54" (330 x 240 x 90)
Net weight	3.1lbs (1.46kg)
Baffle Material	Molded ABS with UV Inhibitor Steel Grill
Finish	Non-reflective White
Mounting Accessories	2 ea. Caps for Recessed Holes

ORDERING

PBC-IP	IP Surface Mount Speaker One-Way
PBC-IP-M	IP Surface Mount Speaker Two-Way

Made in USA