



**DESIGN WALLMOUNT IP LOUDSPEAKER**

# PBC10CX-IPM

The PBC10CX-IPM is a 20 watts open-back wallmount IP loudspeaker for voice, paging, intercom, music streaming, audio routing, pre-recorded and scheduled announcement, VoIP communication or as the SIP endpoint where network-wide communication is desired and high-output loudspeakers are required to overcome high ambient noise and/or large spaces.

The PBC10CX-IPM incorporates 3 control inputs for level control and source selection (using the RAC 5/8 controllers), 1 contact output for triggering events. The IP speaker also comes with a built-in microphone input, allowing hands-free intercom. The YMC0101-004 microphone capsule could be connected to this microphone interface.

To configure, control, monitor the IP speakers in real-time, this can be easily done through your favorite web browser interface, making the management even the most complex environments simpler than ever.



<b>● Features</b>	
Support PoE+ and/or connect to 24 VDC power adapter (if PoE+ is not available)	
Cost effective and simple installation with single cable deployment	
Easily configured, controlled, managed and monitored via web browser	
IP based for music streaming, routing, paging and control over LAV/WAN	
Full DSP includes AEC, NR, Ducker, AGC, PEQ, Hi/Low Pass, Compressor, Limiter, etc.	
3 control inputs for level control and source selection using the RAC 5/8 controller	
1 relay contact output	
1 microphone input	
Network audio codec: G.711, G.722, WAV, mp3	
3rd party control with TERRACOM system	
Support VoIP call via SIP protocol	
<b>● Certifications</b>	EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3
<b>● Electrical</b>	
Rated power, Watts	20
Effective Frequency Range, Hz (BSEN60268-5)	80 - 20,000
S.P.L. @ 1 m, 1 Watt, dB, Octave, 100 Hz-10 kHz	89
S.P.L. @ 1 m, Full power, dB, Octave, 100 Hz-10 kHz	99
Dispersion at 1k/2k Hz, Degrees	132/96 Horizontal 169/96 Vertical
Power supply	PoE+, IEEE802.3af, class 3 DC power input: 24 VDC (18-24 VDC) Minimum power supply: 2 A



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## PBC10CX-IPM

<b>● Control Inputs</b>	
Type	Euro-block terminal
Mode (analog/TTL), VDC	max. 3.3
TTL logic input (max.), VDC	HIGH active: 3.3 LOW active: 1.2
<b>● Interconnection</b>	
Female RJ45 socket, CAT5/6 cables	
Max. cable length, m	100
<b>● Supported Protocols</b>	
SIP 2.0 (peer and proxy)	
IETF SIP (RFC3261)	
IETF IGMP version 2 (RFC2236)	
IETF RTP (RFC1889)	
<b>● Contact Output</b>	
Type	Euro-block terminal
Default status	OPEN (N.O.)
Maximum voltage, VDC	100
Maximum current, A	0.5 A
<b>● Audio</b>	
Audio compression	G.711, G.722, WAV, mp3
<b>● Network</b>	
10/100 Mbps Base TX Ethernet RJ45	
Manual or Dynamic Host Configuration Protocol (DHCP) IP address setup	
Time and date synchronization using NTP	
<b>● Environmental</b>	
IP-rating	21
Min/Max amb temp	-10°C to 55°C
Relative humidity	≤95%
<b>● Mechanical</b>	
Dimensions, WxHxD mm	330 x 243.5 x 90
Net weight, kg	1.68
Colour (Unless Specified)	White, RAL9016
Material	Low smoke zero Halogen UL-94V0 Plastic with UV inhibitors
Mounting	Keyhole and/or screws

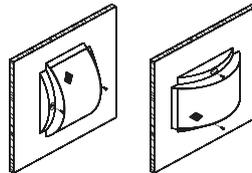
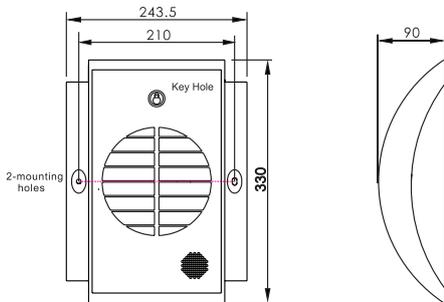


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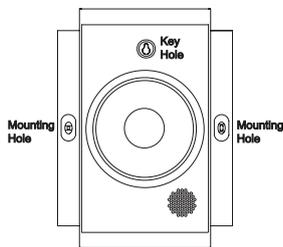


# INSTALLATION GUIDE

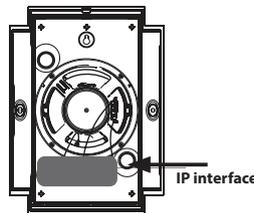
## PBC10CX-IPM



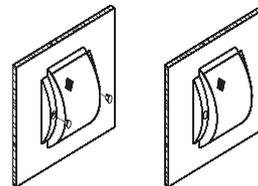
1) On selecting the chosen position for the loudspeaker (it can be mounted vertically or horizontally) use a spirit level to ensure that it is level. Offer the speaker to the wall or ceiling and mark through the mounting holes, as shown on the drawing to the right, the position required for drilling.



2) Drill 2 holes 210 mm apart and then raw plug them.



3) Connect cables to the speaker.

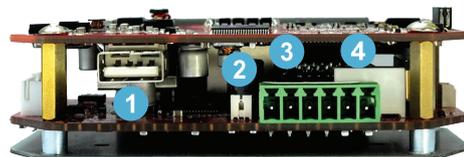


4) With the cables in place the speaker can be screwed through the mounting holes into position. Once in position the two mounting hole caps can be put in place to hide the offending screw heads. There is also provided a key hole mounting plate, as shown on the drawing, this can only be used if the loudspeaker is wall mounted and in a vertical position.

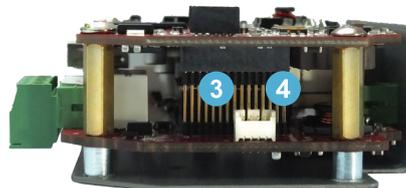
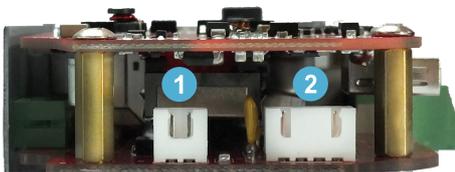
### SPEAKER CONNECTIONS



1. Speaker connection - 1 channel 20 W
2. RJ45 connector Ethernet
3. 24 VDC power input

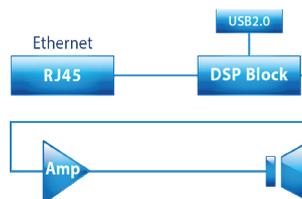


1. USB interface (function reserved - Not available)
2. Microphone input
3. 3 logic control inputs
4. 1 contact output



1. LED strobe light interface (function reserved - Not available)
2. RS232 interface (function reserved - Not available)
3. Power LED interface (+ -)
4. Status LED interface (+ -)

### FUNCTION BLOCK



Disclaimer: We reserve the right of changes and errors.



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