

JD20B-IPM

The JD20B-IPM is a 20 W IP speaker 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 JD20B-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.



● Features

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 LAN/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

● Certifications

EN 55032, EN 55035,
EN 61000-3-2, EN 61000-3-3

● Electrical

Rated power, Watts	20
Effective Frequency Range, Hz (BS EN 60268-5)	63-20,000
S.P.L. @ 1 m, 1 Watt, dB, Octave, 100 Hz-10 kHz	84
S.P.L. @ 1 m, Full power, dB, Octave, 100 Hz-10 kHz	97
Dispersion at 1k/2k Hz, Degrees	180/100
Power supply	PoE+, IEEE802.3af, class 3 DC power input: 24 VDC (18-24 VDC) Minimum power supply: 2 A



JD20B-IPM



● Control Inputs	
Type	Euro-block terminal
Mode (analog/TTL), VDC	max. 3.3
TTL logic input (max.), VDC	HIGH active: 3.3 LOW active: 1.2
● Interconnection	
Female RJ45 socket, CAT5/6 cables	
Max. cable length, m	100
● Supported Protocols	
SIP 2.0 (peer and proxy)	
IETF SIP (RFC3261)	
IETF IGMP version 2 (RFC2236)	
IETF RTP (RFC1889)	
● Contact Output	
Type	Euro-block terminal
Default status	OPEN (N.O.)
Maximum voltage, VDC	100
Maximum current, A	0.5 A
● Audio	
Audio compression	G.711, G.722, WAV, mp3
● Network	
10/100 Mbps Base TX Ethernet RJ45	
Manual or Dynamic Host Configuration Protocol (DHCP) IP address setup	
Time and date synchronization using NTP	
● Environmental	
IP-rating	n/a
Min/Max amb temp	-5°C to 55°C
Relative humidity	≤75%
● Mechanical	
Dimensions, WxHxD mm	146 x 229 x 150
Net weight, kg	2.43
Colour (Unless Specified)	Black
Material	ABS moulded housing
Mounting	Die-cast Aluminium Swivel Bracket



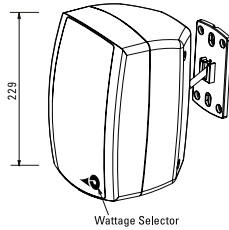
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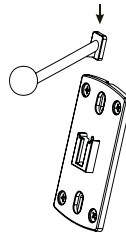
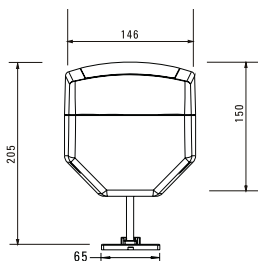
INSTALLATION GUIDE

JD20B-IPM

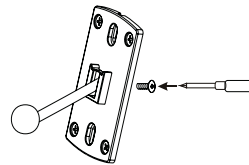
Side view
(unit: mm)



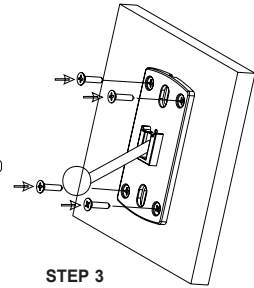
Top view
(unit: mm)



STEP 1



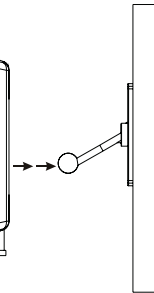
STEP 2



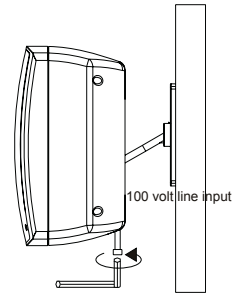
STEP 3

Volume selector switch can be found in the centre of the Penton Logo

STEP 4

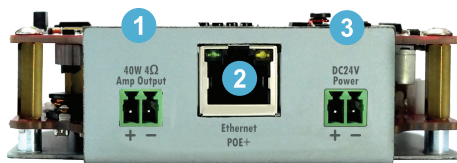


ATTENTION
DO NOT OVERTIGHTEN

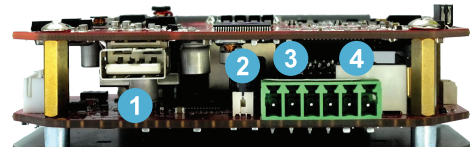


STEP 5

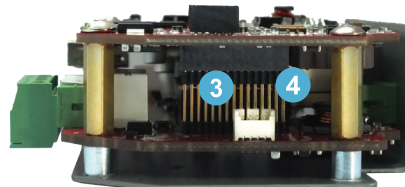
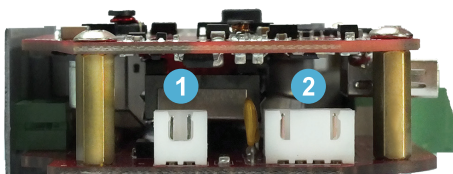
SPEAKER CONNECTIONS



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



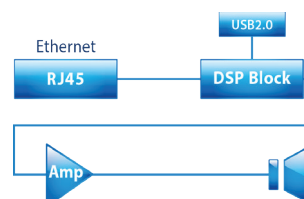
1. USB interface (function reserved - Not available)
2. Microphone input
3. 3 logic control inputs
4. 1 contact output



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

Only the RJ45 connector is available without opening the enclosure of the speaker. For other connectors, it is necessary to open the enclosure.

FUNCTION BLOCK



Disclaimer: We reserve the right of changes and errors.



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