



## MUSIC CABINET IP LOUDSPEAKERS

# JD20W-IPM

The JD20W-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 JD20W-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 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

### ● Certifications

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

### ● Electrical

|   |   |
|---|---|
| Rated power, Watts                                  | 20  |
| Effective Frequency Range, Hz (BSEN60268-5)         | 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<br>DC power input: 24 VDC (18-24 VDC)<br>Minimum power supply: 2 A |



### ATEIS Europe B.V.

Celsiusstraat 1, 2652 XN Lansingerland, Netherlands

Phone +31 (0)10 208 86 90, [www.ateis-europe.com](http://www.ateis-europe.com), [info@ateis-europe.com](mailto:info@ateis-europe.com)





## JD20W-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<br>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   | n/a                                 |
| Min/Max amb temp  | -5°C to 55°C                        |
| Relative humidity   | ≤75%                                |
| <b>● Mechanical</b>   |                                     |
| Dimensions, WxHxD mm  | 146 x 229 x 150                     |
| Net weight, kg  | 2.43                                |
| Colour (Unless Specified)   | White                               |
| Material  | ABS moulded housing                 |
| Mounting  | Die-cast Aluminium Swivel Bracket   |



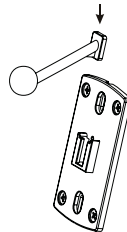
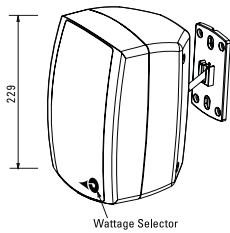
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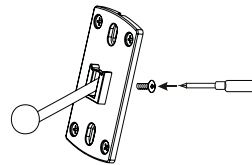
# INSTALLATION GUIDE

## JD20W-IPM

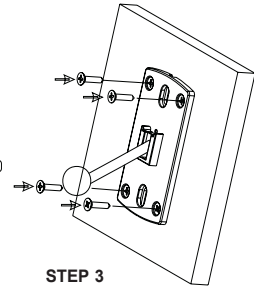
Side view  
(unit: mm)



STEP 1

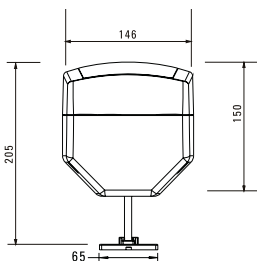


STEP 2



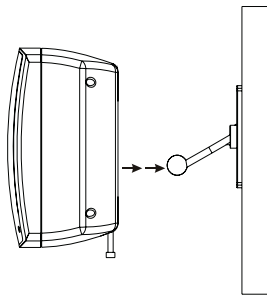
STEP 3

Top view  
(unit: mm)

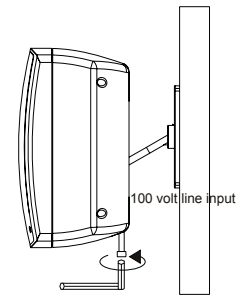


Volume selector switch can be found in the centre of the Penton Logo

STEP 4

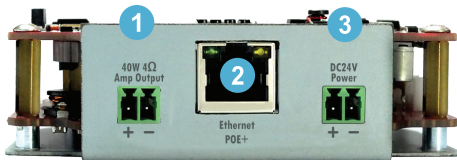


**ATTENTION**  
DO NOT OVERTIGHTEN

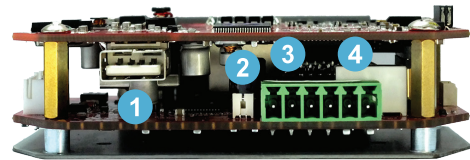


STEP 5

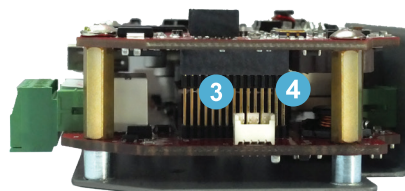
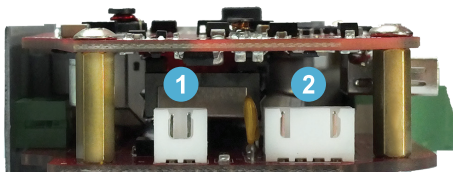
### SPEAKER CONNECTIONS



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



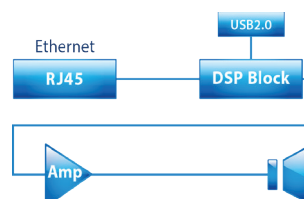
1. USB interface (function reserved - Not available)
2. Microphone input
3. 3 logic control inputs
4. 1 contact output



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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