# IPS-M1-BW

Network Multi-Info Speaker

Product Datasheet



## Features

- Emergency alert with audio and strobe linkage
- Configurable LED strobe light control
- Built-in microphone for talkback
- Two-way intercom
- AGC adjusts volume based on ambient noise levels using an independent microphone
- Event Scheduler
- Supports wearable BLE smart buttons
- Wi-Fi Support
- Compatible with VC-Z01 Network Volume Controller
- ONVIF compatible
- Supports PoE+
- Configure and control via web UI
- Can be integrated with ZYCOO IP Audio Center or third-party IP-PBX systems
- Three SIP account lines supported
- Multicast and P2P supported
- Flexible API

## Description

The ZYCOO IPS-M1-BW Network Multi-Info Speaker is an IP-based communication endpoint that combines high-quality audio broadcasting with visual strobe alerting in a single device. Utilizing SIP and multicast technologies, the IPS-M1-BW is designed for facilities requiring reliable voice communication and enhanced audio-visual notification capabilities.

The IPS-M1-BW supports live paging, general announcements, and emergency notifications, while configurable LED strobe profiles can be linked to system events to provide highly visible alerts and improve awareness during critical situations.

The IPS-M1-BW also supports Wi-Fi connectivity for wireless data transmission and can integrate with BLE-based wearable smart buttons to enable rapid emergency activation and coordinated response.

With PoE+ support, the IPS-M1-BW simplifies installation by providing network connectivity and power over a single Ethernet cable, reducing cabling requirements and installation complexity.

The IPS-M1-BW is well suited for schools and campuses, healthcare facilities, commercial buildings, public safety environments, and other facilities where reliable audio-visual communication is required for everyday announcements, notifications, and emergency alerts.


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## Specifications

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|---|---|
| Power Input | PoE / PoE+(IEEE 802.3af / at) or<br>external DC power supply ( 24V / 2A ) |
| Power Consumption | DC:15 W; PoE+:15 W; PoE:12 W |
| Amplifier Type | Class-D |
| Speaker Component | 4.5" full range Driver Unit |
| Audio Power | DC: 10 W; PoE+: 10 W; PoE: 7 W |
| Speaker Sensitivity | 91 dB/1m/1W |
| Max Sound Pressure Level | DC:101 dB; PoE+:101 dB; PoE:99 dB |
| Frequency Response | 70 Hz ~ 20 kHz |
| Microphone Sensitivity | -36±2 dB |
| Microphone Sensitivity (Ambient) | -36±3 dB |
| Audio Stream | MP3 Sampling Rate 8~48 kHz,<br>Bit Rate 64~320 kbps, Mono or Stereo |
| SIP Audio Codecs | G.722, G.711 A-law, G.711 U-law, Opus |
| Audio Storage | 8GB |
| LED Color/Brightness | Red, Green, Blue<br>Brightness: Low, Medium, High |
| Ethernet (Wired) | 10/100 Mbps, Adaptive |
| Wi-Fi | IEEE 802.11 a/b/g/n/ac/ax 2.4GHz & 5GHz |
| Bluetooth | Version 5.0, BLE |
| Network Protocols | SIP(RFC3261), HTTP, TCP/IP, SSL, DNS,<br>SNTP, NTP, RTSP, PTP, RTP, RTCP, UDP, MQTT,<br>ICMP, DHCP, AR P, SSH |
| Ports | RJ45 Network(10/100 Mbps, Adaptive)<br>2-Pin Connector DC Power<br>3-Pin Connector Dry Contact Output,<br>2-Pin Connector Input |
| Mounting | Wall-mount |
| Material | Aluminum, Finished in Textured White Epoxy |


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## Specifications

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|---|---|
| Regulatory | FCC PART 15B sDoC<br>CE-AOC Bluetooth/BLE/2.4G Wi-Fi<br>ETSI EN 300 328 V2.2.2（2019-07）<br>5G Wi-Fi B1 ETSI EN 301 893 V2.2.1(2024-11)<br>ETSI EN 301 489-1 V2.2.3 (2019-11)<br>ETSI EN 301 489-3 V2.3.2 (2023-01)<br>ETSI EN 301 489-17 V3.3.1 (2024-09)<br>EN55032:2015+A11:2020 EN55035:2017+A11:2020<br>EN IEC 61000-3-2:2019+A2:2024<br>EN 61000-3-3:2013+A2:2021 EN IEC 62368-1:2024+A11:2024 |
| Dimensions | 11.81” x 11.81” x 3.74” (300 mm x 300 mm x 95 mm) |
| Weight | 1.85kg, 4.1lbs |
| Operating Temperature | -4°F - 122°F (-20°C - 50°C) |
| Storage Temperature | -40°F - 158°F (-40°C - 70°C) |
| Humidity | 10% - 95% RH (Non-Condensing) |
| Warranty | 24 Months |


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## Application



Healthcare



Education



Industry/Commercial



Transportation

## A&E Specification

Provide IP-based multi-information speakers for network audio communication, paging, public address, emergency notification, and visual alert applications. The network multi-information speaker shall combine an integrated audio speaker, talkback microphone, ambient noise detection microphone, and configurable LED strobe light within a single network-connected device. The device shall support SIP and multicast-based network audio communication and shall provide both wired Ethernet and wireless network connectivity. The device shall support integration with compatible Bluetooth Low Energy (BLE) devices, including wearable smart buttons, for emergency activation and other system events. The network multi-information speaker shall be a self-contained IP communication endpoint shall incorporate a class-D audio amplifier, a full-range loudspeaker, a talkback microphone, an ambient noise detection microphone, a LED strobe light, an ethernet network interface, a Wi-Fi wireless network interface, a Bluetooth/BLE wireless interface, a dry contact output, and a switch input. The LED strobe shall provide configurable visual notification profiles that can be associated with system events. The device shall support operation using PoE+ or external power.

The speaker shall be a 4.5-inch full-range driver unit with sensitivity of 91 dB at 1 m / 1 W, a maximum sound pressure level 101 dB, and a frequency response of 70 Hz to 20 kHz. The integrated talkback microphone shall have a sensitivity of -36 ±2 dB. The separate integrated ambient noise detection microphone shall have a -36 ±3 dB. The integrated LED strobe light colors shall include red, green, and blue.  The LED strobe shall have brightness levels of low, medium, and high. The device shall support the following SIP audio codecs G.722, G.711 A-law, G.711 U-law, and Opus. Audio streaming shall support MP3. The device shall support Ethernet at 10/100 Mbps via an RJ45 connector and PoE+. Wi-Fi shall be supported IEEE 802.11 a/b/g/n/ac/ax at the following frequency bands 2.4 GHz and 5 GHz. Bluetooth 5.0 with BLE shall be supported for use with compatible wireless devices and smart-button applications.

The speaker unit shall have the following ports available, RJ45, one 2-pin power connector, one 3-pin dry contact output, and one 2-pin input connector. Any device that does not contain the features described above shall not be considered.

All information contain within is subject to change without notice.


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