IPS-M1-D1W

Network Multi-Info Speaker

Product Datasheet



Features

- Emergency alert with audio display and strobe linkage
- Configurable Display and LED strobe light control
- Caller-ID
- Built-in microphone for two-way intercom
- AGC adjusts volume based on ambient noise levels using an independent microphone
- Event Scheduler & Countdown Timer
- Supports wearable BLE smart buttons
- Wi-Fi Interface
- 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-D1W Network Multi-Info Speaker is an IP-based communication endpoint that combines audio broadcasting, visual messaging, and high-visibility strobe light alerting in a single integrated device. Utilizing SIP and multicast technologies, the IPS-M1-D1W is designed for applications requiring clear voice communication and prominent visual notification capabilities.

The IPS-M1-D1W incorporates an LCD display for presenting notifications, announcements, emergency messages, and other important information. The display supports configurable scrolling text, background colors, and coordinated strobe light profiles to increase situational awareness during both routine communications and emergency conditions. Caller ID information can also be displayed on the LCD, while the idle screen can be configured to display the current time and date.

The IPS-M1-D1W supports Wi-Fi connectivity for wireless network communication and can interface with BLE-based wearable smart buttons to provide rapid emergency notification and triggering with coordinated audio and visual responses. The device is PoE+ enabled, allowing power and network connectivity to be provided through a single Ethernet cable, simplifying installation and reducing cabling requirements. Alternatively, the IPS-M1-D1W may be powered from a separate power supply while using Wi-Fi for network connectivity.

The IPS-M1-D1W is suitable for education, healthcare, commercial, and public safety environments where reliable, integrated audio and visual communication is required for routine announcements, general notifications, and emergency alerting.

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Specifications

Power Input	PoE / PoE+(IEEE 802.3af / at) or external DC power supply (24V / 2A)
Power Consumption	DC:20 W; PoE+:20 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: 5 W
Speaker Sensitivity	91 dB/1m/1W
Max Sound Pressure Level	DC:101 dB; PoE+:101 dB; PoE:98 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, 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
LCD Characteristics	16-bit RGB High Resolution Back-Lit Color LCD Displays, 600 nits
LED Color/Brightness	Red, Green, Blue, 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,SNTP, NTP, RTSP, PTP,RTP,RTCP, UDP,MQTT,ICMP, DHCP, ARP, SSH
Ports	RJ45 Network, 2-Pin Connector External Power 3-Pin Connector Dry Contact Output, 2-Pin Connector Input
Mounting	Wall-mount
Material	Aluminum, Finished in Textured White Epoxy

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Specifications

Regulatory	FCC PART 15B sDoC Bluetooth/BLE/2.4G Wi-Fi ETSI EN 300 328 V2.2.2 (2019-07) 5G Wi-Fi B1 ETSI EN 301 893 V2.2.1 (2024-11) EMC ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.3.2 (2023-01) ETSI EN 301 489-17 V3.3.1 (2024-09) EN55032:2015+A11:2020 EN55035:2017+A11:2020 EN IEC 61000-3-2:2019+A2:2024 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	1.96 kg, 4.4 lbs
Operating Temperature	-4°F - 122°F (-20°C - 50°C)
Storage Temperature	-40°F - 158°F (-40°C - 70°)
Humidity	10% - 95% RH (Non-Condensing)
Warranty	24 Months

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Application



Healthcare



Education



Industry/Commercial



Transportation

A&E Specification

The Network Multi-Information Speaker shall be an IP-based communication endpoint providing integrated audio broadcasting, visual messaging, and high-visibility strobe light notification in a single wall-mounted device. The unit shall utilize SIP and multicast-based network communication and shall be suitable for use in education, healthcare, commercial, public safety, and other facilities requiring reliable audio and visual notification. The device shall provide a full-range loudspeaker, talkback microphone, ambient noise detection microphone, high-resolution color LCD display, and configurable strobe light indication. The device shall support both wired Ethernet and wireless network connectivity and shall provide Bluetooth Low Energy (BLE) connectivity for compatible wireless devices and emergency notification accessories.

The Network Multi-Information Speaker shall Provide network-based audio communication using SIP and multicast technologies. The amplifier shall be a class-D audio amplifier. The speaker shall be a 4.5-inch full-range driver with a minimum speaker sensitivity of 91 dB at 1 m / 1 W, provide a maximum sound pressure level of 101 dB, and provide a frequency response of 70 Hz to 20 kHz. The following SIP audio codecs shall be G.722, G.711 A-law, G.711 U-law, Opus. The device shall support MP3 audio streaming. The device shall incorporate both a talkback microphone and an ambient noise detection microphone. The talkback microphone shall have a sensitivity of -36 ±2 dB. The ambient noise detection microphone shall have a sensitivity of -36 ±3 dB. The system shall support talkback communication and ambient-noise monitoring as part of the network communication system. The device shall incorporate a high-resolution, back-lit color LCD display suitable for displaying routine notifications, announcements, emergency messages, caller identification information, and other system-generated information. The LCD display shall provide 16-bit RGB color, a resolution of 1920 × 480 pixels, configurable display text, configurable scrolling text, configurable background colors, and brightness adjustment from levels 1 through 10. When the device is not displaying an active notification or message, the display shall be capable of displaying time and date information. Caller-ID information shall be capable of being displayed on the LCD during applicable SIP communications. The device shall incorporate an integrated visual strobe light for high-visibility notification and emergency alerting. The strobe shall support red, green, and blue illumination with either high, medium, and low brightness settings. Configurable strobe light profiles that may be coordinated with system notifications and emergency alerts.

The device shall provide one RJ45 Ethernet network connection supporting 10/100 Mbps adaptive Ethernet operation. The Ethernet interface shall support Power over Ethernet Plus PoE+ in accordance with IEEE 802.3at. The device shall support wireless network connectivity using IEEE 802.11 a/b/g/n/ac/ax standards. Wireless operation shall support both 2.4 GHz and 5 GHz. The device shall be capable of operating using Wi-Fi for network data communication when powered from an external power source. The device shall incorporate Bluetooth 5.0 connectivity as well as BLE. The device shall be capable of interfacing with compatible BLE-based wearable smart buttons or other supported wireless notification devices for rapid emergency notification and coordinated system response. Any device that does not include the features described shall not be considered.

All information contain within is subject to change without notice.

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