



## IPSWS-FM

### Standard Flush- Mount IP Speaker

#### IP Speaker Overview

Advanced Network Device's (AND) IP Speaker is a Power over Ethernet (PoE, PoE+) loudspeaker that requires only an RJ-45 connector to connect to existing data networks. Simultaneously, you can broadcast to both phones and speakers. The device contains a built in microphone for two way communications.



#### Features

##### Built in Web Server:

- Configurable volume
- Device Status
- Field upgradable

##### Line In/ Out:

- Independent line-in.
- Can be configured to send line in audio to the speaker and/or broadcast to additional speakers

##### Easy Installation:

- Only requires CAT 5 connection (up to 300ft) to network
- Power over Ethernet (no power cord or adapter). No other equipment needed

##### GPIO:

- 2 inputs, 1 output
- Can be activated multiple ways including via telephone or programmatically.

##### Multicast:

- Full multicast and broadcast support. Send audio to individual, multiple, or all devices simultaneously.

##### Sound Masking:

- Generate configurable pink noise via push button or programmatically.

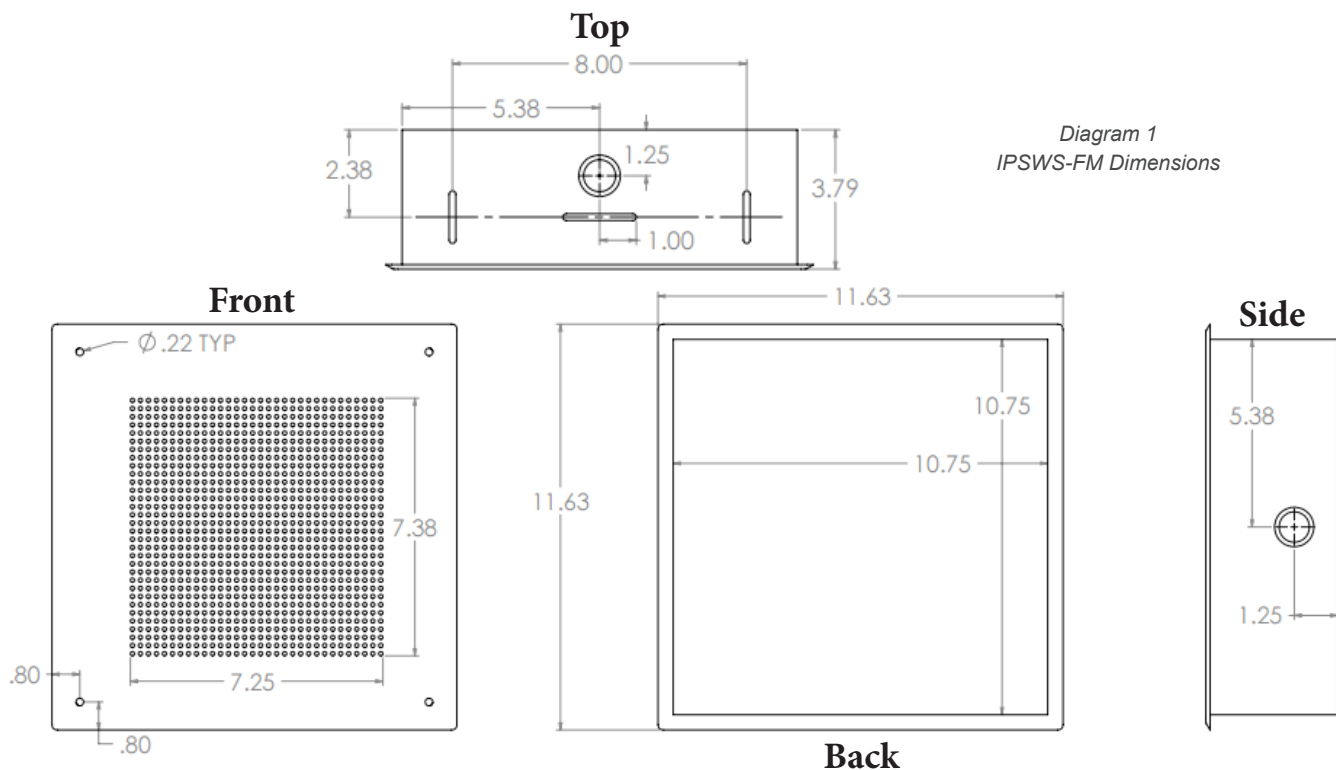
##### Two Way Communication:

- Activate via push button
- Allows for full duplex hands free communication
- Optional button for hand-free push to talk capability
- Interoperates with Cisco and other VoIP network and phones



## Software Options

- AND devices can operate standalone and do not require external software for atomic timekeeping and sending text messages from the device's web server. However, application software can be used to take advantage of the device capabilities which can then be integrated into applications like mass notification system, a phone network, etc.
- **AND Clockwise: Developed and Supported by AND.** Instantly finds and provide controls for all of you AND devices. The software provides a clock/alarm feature that supports scheduling events, alarms, stopwatch, timer with an optional sound library. It also send News/RSS/Twitter/Weather/Stock feeds, etc. messages to AND devices with a display.
- **Third Party Software:** AND has had a long standing relationship with various third party software providers. AND devices support Informacast (Singlewire), SA-Announce (Syn-Apps), IPSession (IPCelerate), MessageNet Systems, BellComander (Acro Vista), and others. AND devices will work with SIP-compatible products/PBX, such as Asterisk, 3CX, ShoreTel, etc.
- **NOTE: AND Clockwise and 3rd Party Software can run concurrently**



## Specifications

- Weight: 9lbs
- Speaker Size: 8"
- Average Sensitivity: 95dB, 1W/1M
- Audio Power: 8 W/16 W
- Frequency Response: 60 Hz-17 kHz
- PoE (IEEE802.3af) 15.4 W or
- PoE+ (IEEE802.3at) 30.0 W
- 8W total audio output power
- 10/100 Mb network connection

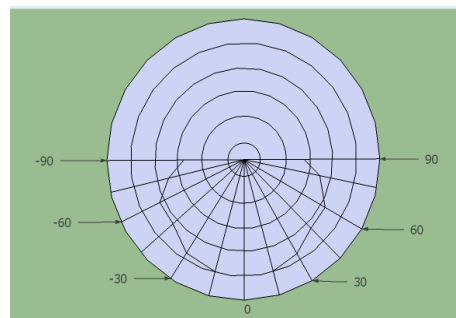


Diagram 2  
8" Speaker Polar Plot  
2 kHz Octave Band,  
Grid Spacing = 6dB/Division

## Supported Protocols

- |          |            |
|----------|------------|
| • SIP    | • DHCP     |
| • IPv4   | • IGMP     |
| • HTTP   | • ICMP     |
| • SLP    | • TCP/IP   |
| • TFTP   | • UDP      |
| • NTP    | • MDNS and |
| • SNMPV1 | MDNS-SD    |
| &        |            |
| SNMPV2c  |            |