

## DSP4008

### IP Network Wall Mounted Speaker



#### Description

The IP Network Wall Mounted Speaker is engineered to deliver high-performance audio and intelligent communication in modern networked environments. Featuring a 4.5-inch mid-low driver and 2-inch tweeter with a built-in Class-D amplifier, it ensures clear and powerful sound with wide coverage. Supporting PoE, SIP, and ONVIF protocols, it enables seamless integration in background music, paging, and security applications.

#### Features

- Built-in 15W Class-D power amplifier with a frequency response range of 80Hz to 18KHz and a maximum sound pressure level of 100dB.
- Supports PoE (IEEE802.3af/at) or external power supply (DC 24V 2A).
- Supports 48K OPUS high-quality audio codec.
- Compatible with the standard SIP protocol and ONVIF protocols, allowing integration with network cameras for security applications.
- Supports parameters configuration via web interface or software tools.
- Supports multiple SIP accounts, allowing registration on up to three SIP systems for different functional requirements.
- Alarm input interface supports HTTP API alarm signal transmission and pre-recorded audio playback.
- Built-in microphone design with excellent sound pickup, combined with an external button for easy two-way communication.
- Can be connected to an 8Ω 15W analog sub speaker.

## Specifications

| Model                         | DSP4008   |
|-------------------------------|---|
| <b>Speaker</b>                |   |
| Speaker Unit                  | 1×4.5" LF + 1×2" HF   |
| Sensitivity                   | 90dB/1m/1W  |
| MAX. SPL.                     | 100dB   |
| Amplifier                     | Class-D power amplifier   |
| Rated Power                   | DC: 8Ω 15W or PoE: af-8Ω 8W / at-8Ω 15W   |
| Frequency Response            | 80Hz~18KHz  |
| Coverage                      | 90°H×50°V, effective range 30 m²  |
| Audio                         | Mono  |
| THD at Rated Power @1KHz      | 0.2%  |
| <b>Microphone</b>             |   |
| Microphone                    | Electret condenser microphone   |
| Directivity                   | Omnidirectional   |
| Installation Method           | Built-in  |
| Sensitivity                   | -36dB±2dB   |
| S/N Ratio                     | 65dB  |
| Input MAX. SPL.               | 110dB (THD≤3%)  |
| Maximum Pickup Distance       | Up to 10m in front under 50dB ambient noise   |
| <b>Audio</b>                  |   |
| Audio Codec                   | G.722, G.711 A-law, G.711 U-law, Opus   |
| Audio Streaming               | MP3 with 8-48KHz sampling rate, 64-320kbps bitrate, mono or stereo  |
| <b>Interface</b>              |   |
| Interface                     | 1×RJ45 port (with PoE support)  |
|                               | 1×10-pin 3.5mm Phoenix terminal block (for dry contact, switch signal, button, button indicator, and sub speaker) |
|                               | 1×DC jack (5.5×2.1mm)   |
| <b>Network</b>                |   |
| Network Interface             | 10/100Mbps, support PoE IEEE 802.3af/at   |
| Network Protocol              | SIP (RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH           |
| <b>Management</b>             |   |
| Configuration Interface       | Web management interface or auto-provisioning server  |
| Auto-Provisioning             | MQTT IoT protocol   |
| <b>Hardware Parameters</b>    |   |
| Memory                        | 128MB RAM, 256MB flash  |
| Power Input                   | PoE IEEE802.af/at adaptive or DC 24V-2A input   |
| Enclosure                     | ABS   |
| Color                         | White   |
| Weight                        | 1.5KG   |
| Dimensions                    | 260×200×100mm   |
| Installation Method           | Wall mount  |
| <b>Environment Parameters</b> |   |
| Installation Environment      | Indoor  |

|                       |  |
|-----------------------|--|
| Operating Temperature | -20°C-50°C (-4°F-122°F)  |
| Storage Temperature   | -40°C-70°C (-40°F-158°F)   |
| Humidity              | 10%-95% RH, non-condensing   |
| <b>Certification</b>  |  |
| Certification         | EN 55032:2015, EN 55035:2017, EN61000-3-2:2014, EN 61000-3-3:2013, EN 62368-1:2014+A11:2017, FCC Pat 15B |

**Frequency Response**  
(dB SPL, 1W, 1m)

