

# SM Network Horn Speaker



The **SM Network Horn Speaker** is part of the FrontRow SM Series, designed specifically for Symphony — FrontRow’s third-generation campus communication software. This IP Horn is perfect for larger and loud environments requiring Bell, Paging and Intercom communication. The SM Network Horn Speaker includes an integrated microphone allowing hands-free, two-way intercom communication.

## Applicable Scenarios

The **SM Network Horn Speaker** is perfect for interior and exterior paging and bells. It’s also exceptional for gymnasiums, or other loud classroom environments where paging, bells and intercom audio are required.

## Two-way Intercom

Support for one programmable “press-to-talk” switch button, and built in microphone, the SM Network Horn Speaker allows two-way intercom calls.

## Multiple SIP Accounts

While designed for FrontRow’s Symphony, the SM Network Horn Speaker supports up to three total SIP PBX connections.

## Multicast

The SM Network Horn Speaker offers 15 unique multicast priority streams, providing exceptional flexibility to meet your communication needs.

## Audio Codecs

The SM Network Horn Speaker supports four industry-standard audio codecs:

- G.722 (High Definition)
- G.711 (alaw)
- G.711 (ulaw)
- Opus (High Definition)

## Built-in Amplifier

Built-in 15W amplifier, 400Hz to 8KHz frequency range and 115dB max sound pressure level, the audibility and intelligibility of voice paging are guaranteed even in noisy and large spaces.

## Power over Ethernet (PoE)

The SM Network Horn Speaker is powered via standard PoE (IEEE 802.3at), ensuring a streamlined installation and enabling network control through the built-in web interface or Symphony.



## The SM Series IP Audio Devices by FrontRow



**Network Speaker Clock**  
8000-00004



**Network Speaker**  
8000-00003



**Network Horn Speaker**  
8000-00005



**Network Interface**  
8000-00002

# Specifications

## Speaker

Speaker Component	1.5"midrange driver unit
Sensitivity	105dB/1m/1W
Max Sound Pressure Level	115dB
Amplifier	Class D Amplifier
Rated Power	PoE: at-8Ω 15W
Frequency Range	400Hz – 8KHz
Coverage Pattern	50°H 50°V, effective distance 70m
Acoustics	Mono

## Audio

Audio Codecs	G.722, G.711 a-law, G.711 u-law, Opus
Audio Streaming	MP3 sampling rate 8 – 48KHz, bit rate 64 – 320kbps, Mono or Stereo

## Microphone

Microphone	Electret condenser microphone
Directionality	Omni-directional
Installation method	Built-in
Sensitivity	-36±2dB
SNR	65dB
Maximum input sound pressure	110 dB (THD ≤ 3%)
Maximum pickup distance	Up to 10m in a 50dB noise environment

## Interface

Interface	RJ45 connector for POE 3-pin 3.81mm Phoenix terminal for one button and one light 2-pin 3.81mm Phoenix terminal for Relay (NO, COM) DC 24V-1A Power interface
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## Network

Interface	10/100Mbps, support PoE IEEE 802.3at
Protocols	SIP(RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH

## Mechanical Properties

Memory	128MB RAM, 256MB Flash
Power input	PoE IEEE802.3at standard or DC 24V-1A
Casing	Anti-rust treated 1060 pure aluminum
IP Rating	IP66
Color	White
Weight	2KG
Dimensions	220 x 235 mm (8.66 x 9.25 in)
Mounting method	Wall/Pole mounted

## Environmental

Installation Environment	Indoor/Outdoor
Operating Temperature	-30°C - 70°C (-22°F - 158°F)
Storage Temperature	-40°C - 70°C (-40°F - 158°F)
Humidity	10% - 95% RH Non-condensing

## Approvals

Approvals	EN 55032:2015, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 62368-1:2014+A11:2017, FCC Part 15B
Warranty Coverage	2 Years

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