



SM Network Square Speaker

The **SM Network Square Speaker** is part of the FrontRow SM Series, designed specifically for Symphony — FrontRow’s third-generation campus communication software.

It features an network controlled speaker, and integrated microphone for hands-free, two-way intercom communication.



Applicable Scenarios

The SM Network Square Speaker is an excellent choice for classrooms that require paging, bell scheduling, and intercom communication.

Two-way Intercom

The SM Network Square Speaker supports two programmable “press-to-talk” switch buttons, and built-in microphone, allowing for two-way intercom calls. (Optional two button call switch, part number MC-CS-2BM-V1).

Multiple SIP Accounts

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

Multicast

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

Audio Codecs

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

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

Built-in Amplifier

Featuring a built-in 10W amplifier, a 70Hz to 20kHz frequency range, and a maximum sound pressure level of 101dB, the SM Network Square Speaker delivers clear audibility and intelligibility for voice paging in classroom environments.

Power over Ethernet (PoE)

The SM Network Square 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.

Relay

The SM Network Square Speaker is equipped with a NO/NC dry relay, enabling your existing FrontRow audio systems to be automatically muted during a Symphony Audio event.

The SM Series IP Audio Devices by FrontRow



Network Speaker Clock

8000-00004



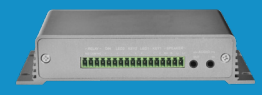
Network Speaker

8000-00003



Network Horn Speaker

8000-00005



Network Interface

8000-00002

Specifications

Audio

Speaker Component	4.5" Full Range Driver Unit
Sensitivity	91dB/1m/1W
Max Sound Pressure Level	101dB
Frequency Response	70Hz - 20KHz
Coverage Pattern	90°H 50°V 30m2
Amplifier	Single Channel Class-D Topology
THD	<0.1%
Rated Power	8Ω 10W
Network Audio Codec	G.722, G.711 a-law, G.711 u-law, Opus

Microphone

Directivity	Omni-Directional
Sensitivity	-36±2dB
Impedance	2.2kΩ (Max)
S/N Ratio	65dB
Maximum Input Sound Pressure Level	110dB THD≤3%
Standard Operating Voltage	2.0 Vdc
Current Consumption	500µA (Max)

Network

Ethernet	IEEE 802.3 10/100 Base-T
PoE	IEEE 802.3 at Compliant
Supported Protocols	SIP(RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH
IP Addressing	DHCP / Static

Mechanical Properties

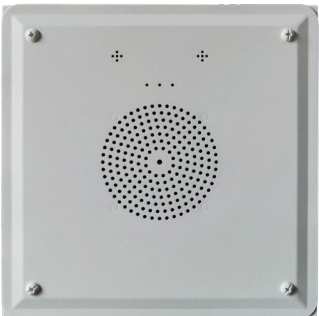
Memory	128MB RAM, 256MB Flash
Power Input	PoE+ and External 24VDC - not included
Casing Material	Cold Rolled Steel Finished in Textured White Epoxy
Mounting Method	Wall Mounted
Color	White
Weight	3.25kg(7.17lb)
Dimensions	11.81" x 11.81" x 3.62" (300mm x 300mm x 92mm)

Environmental

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

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 Class A
Warranty Coverage	2 Years



Front

Mounting

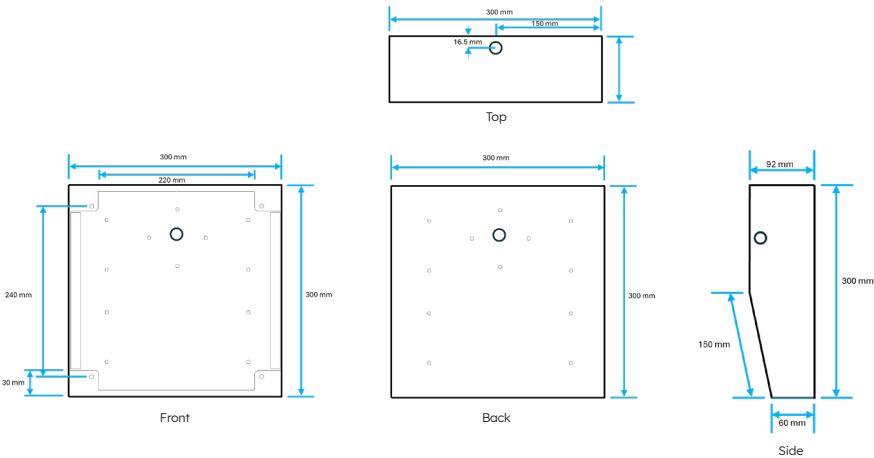
The SM Network Square Speaker surface can be installed either flat against the wall or at a 12° downward slant without additional equipment.

Included in the Box:

- 1 SM Network Square Speaker
- 1 SM Network Square Speaker back box
- 4 mounting screws (for attaching the speaker to the back box)

Not included:

- Network cable
- Mounting hardware for attaching the back box to the wall



Learn more at boxlight.com