NBS-2301P55 Network Multi-Zone Amplifier





4-Zones Mixing Broadcast

INTRODUCTION

SPON Netwrok Multi-Zone Amplifier NBS-2301P55 is a 4-zone IP mixer amplifier that provides multiple external audio interfaces for applications such as supermarkets, office buildings, and schools. It integrates pre-amplifier functionality with bass, treble, and volume control, and supports 4 independent broadcast zones for flexible zone paging and broadcast control. An automatic cooling system ensures stable and reliable operation.

MAIN FEATURES

- **4-Zone Broadcast Control:** Supports 4 independent broadcast zones for flexible zone selection and paging control.
- **Multiple Audio Inputs for Mixing:** Supports multiple microphone and audio inputs to meet various source input and audio mixing requirements.
- **Tone and Volume Adjustment:** Integrated pre-amplifier functionality with bass, treble, and volume control for flexible sound optimization.
- **Reliable Cooling and Multiple Protection:** Built-in automatic cooling system with over-current, short-circuit, overload, and thermal protection for stable operation.
- **2U Rack-Mount Design:** Designed in a 2U rack-mount form factor for easy installation and system integration in indoor public address applications.

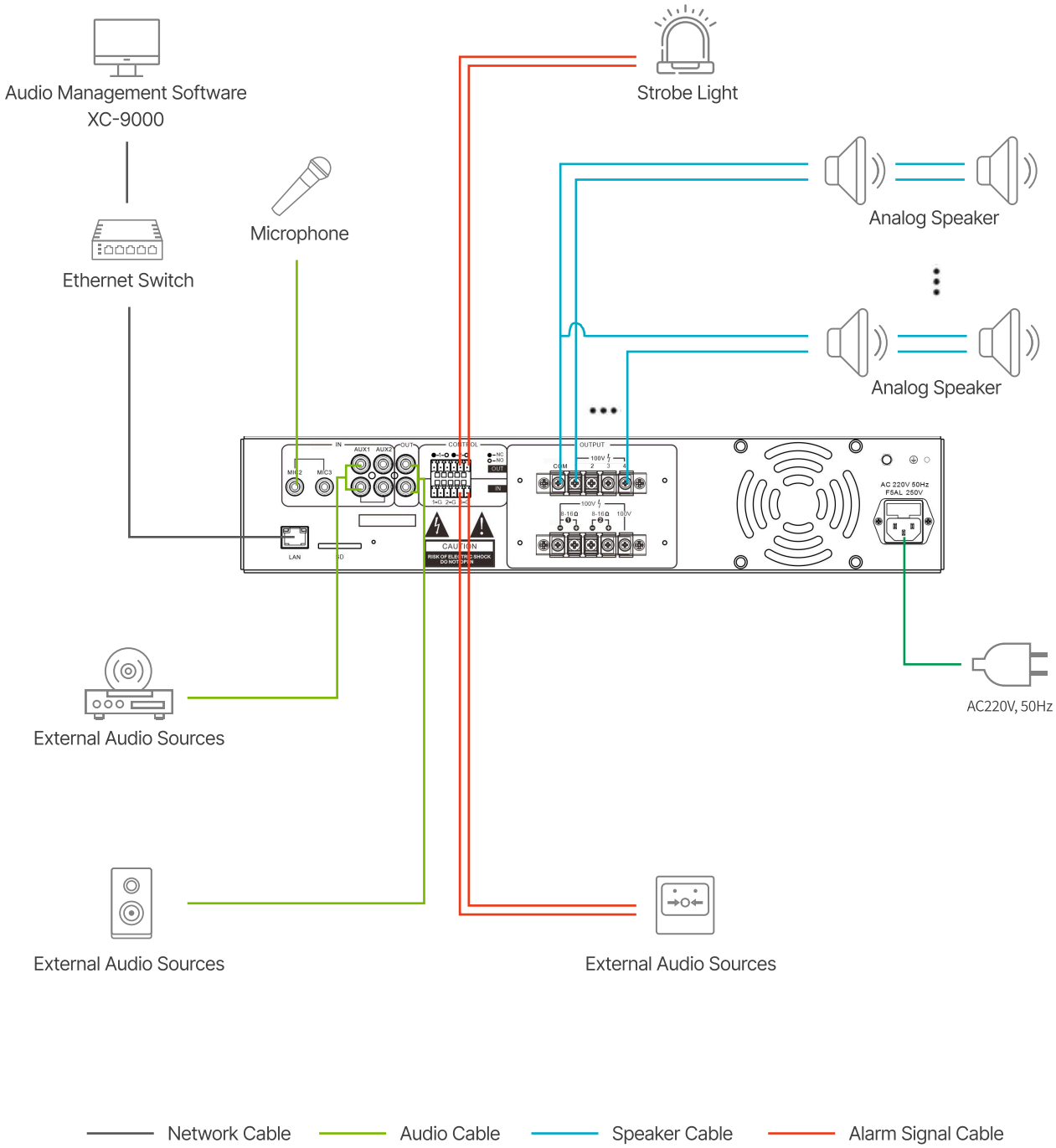
PARAMETERS:

Network Interface	10BASE-T/100BASE-TX, RJ45 Connector
Network Protocols	HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Configuration	Web Interface or DevConfig Tool
Audio Codec	MP3, PCM, ADPCM
SNR	Mic Input 01: ⩾66dB; Mic Input 02/03: ⩾80dB; Audio Input 01/02: ⩾75dB
Audio Sampling Rate & Bit Rate	8kHz–44.1kHz, 16-bit, 8kbps–320kbps
THD	⩽0.5% at 1kHz, 1/2 rated output
Frequency Response	130Hz–18kHz
Rated Output Power	550W
Zones	4, supporting independent control of 4 broadcast zones
Power Supply	AC220V, 50Hz
Power Consumption	⩽650W
Mounting	2U Rack-Mounted
Installation Environment	Dry Indoor Locations Only
Operating Temperature	-10°C to +50°C
Operating Humidity	⩽90% RH, Non-Condensing
Cooling	Built-in fan starts automatically when the heatsink temperature exceeds 55°C, with forced front-to-back air cooling
Protection	Over-Current Protection, Short-Circuit Protection, Overload Protection, Thermal Protection
Front Panel Material	Aluminum Alloy
Housing Material	Surface-Treated Steel Plate
Color	Black
Dimensions	483 × 430 × 88 mm
Package Dimensions	550 × 505 × 154 mm
Net Weight	7.5 kg
Warranty	2 years

ACCESSORIES:

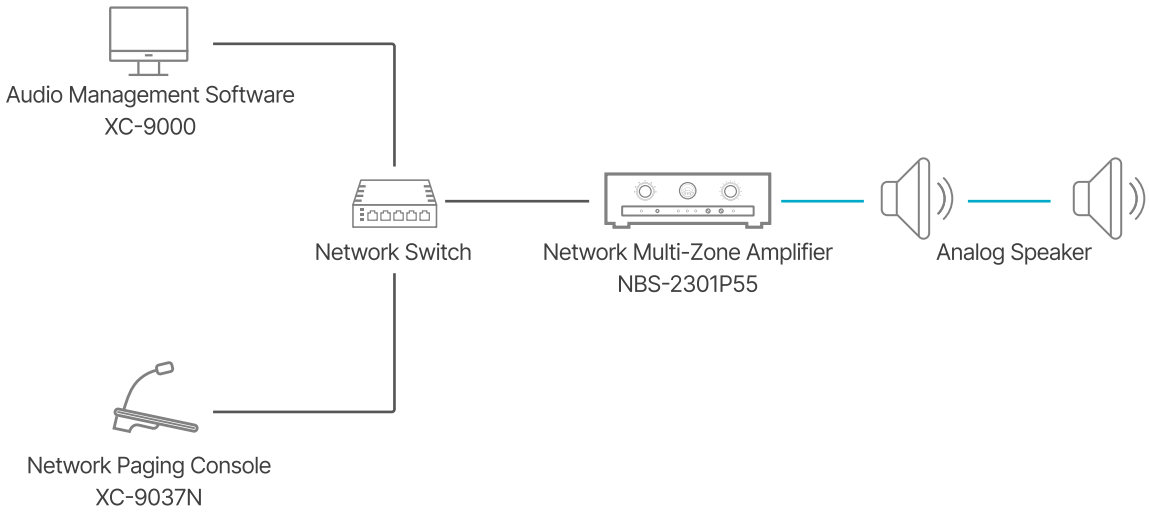
ACCESSORIES	1 × Power Cord (Optional) 2 × Terminal Block (3.81mm, 6-pin)

CONNECTION DIAGRAM



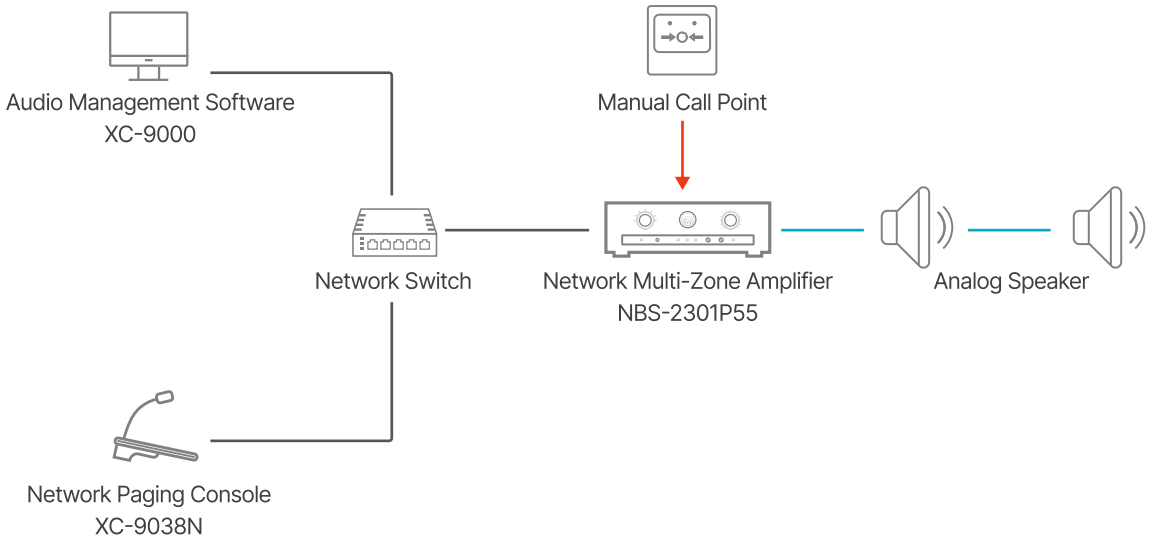
APPLICATION 1

The NBS-2301P55 Network Multi-Zone Amplifier can be registered to the XC-9000 audio management software to receive real-time voice broadcasts initiated by the network paging console, as well as scheduled tasks or online streaming media broadcasts from the software.

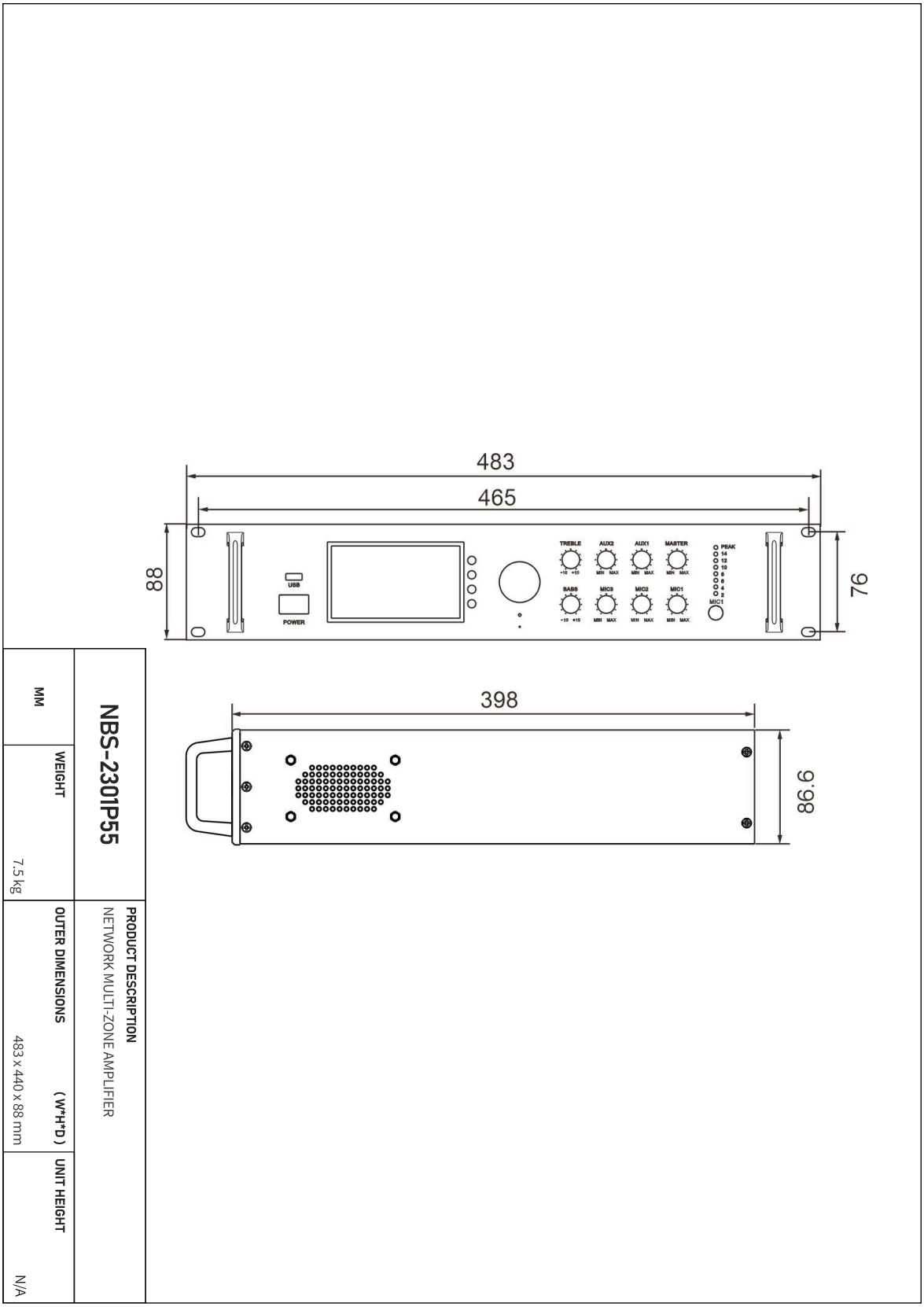


APPLICATION 2

The NBS-2301P55 Network Multi-Zone Amplifier supports alarm input interfaces. When receiving a third-party alarm signal, the device can trigger preset fire emergency tasks on the XC-9000 server or the built-in server of XC-9038N, enabling automatic broadcasting. Even without a server, it can also trigger playback of pre-stored audio files from the SD card for standalone operation.



DIMENSION



NBS-2301P55			
PRODUCT DESCRIPTION	OUTER DIMENSIONS (W*H*D)	WEIGHT	MM
NETWORK MULTI-ZONE AMPLIFIER	483 x 440 x 88 mm	7.5 kg	UNIT HEIGHT N/A