

FreeSpace® ZA 2120-LZA

Zone Amplifier



Product Description

The Bose® FreeSpace® ZA 2120-LZA zone amplifier is designed to provide basic amplification and sound system expansion when using front-end Bose products such as FreeSpace® integrated zone amplifiers and ControlSpace® engineered sound processors. With the inclusion of AmpLink, up to 8 digital audio channels can be sent to the amp from a Bose DSP via a shielded CAT 5 cable.

Key Features

- **Reliable 2 x 120 W Class-D amplification** optimized for low-impedance applications.
- **AmpLink** transports up to 8 uncompressed, near zero latency, digital audio channels between Bose DSPs and the ZA 2120-LZA via shielded CAT 5 cable. The amp also supports a THRU path for daisy-chaining digital audio to other Bose AmpLink products at a distance of up to 10 m between products.
- **Remote** option for volume control eliminates the need for bulky, inefficient, and sound-altering in-line volume controls.
- **Expansion-ready connectivity** with FreeSpace® IZA amplifiers and ControlSpace® engineered sound processors when additional sources and loudspeaker processing is required.
- **Intuitive feature setup** enables the amplifier to be configured without a PC for input, output and automatic standby options.
- **Auto-Standby feature** allows the amplifier to consume less power when not in use.
- **Remote muting** allows the amplifier to be muted via a centralized control system.

Applications

Designed for a wide range of applications, including:

- Retail stores
- Restaurants and bars
- Hospitality venues
- Conference centers
- Schools
- Auxiliary zones

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Technical Specifications

POWER RATING		
Amplifier Power	2 x 120 W @ 4 Ω, 2 x 60 W @ 8 Ω	
AUDIO PERFORMANCE		
Frequency Response	20 Hz - 20 kHz (+0/-3 dB, @ 1 W reference 1 kHz)	
THD+N	≤ 0.5 % (at rated power)	
Channel Separation (Crosstalk)	≤ -58 dBu (below rated power, 1 kHz)	
Dynamic Range	88 dB	
Audio Latency	1 ms (any analog input to loudspeaker output); 1.5 ms (AmpLink input to loudspeaker output)	
AUDIO INPUTS	ANALOG	AMPLINK
Input Channels	1 unbalanced, 1 balanced	8 digital
Connectors	Stereo RCA, 5-pin Euroblock	RJ-45 (Input)
Input Range	-8 dBu to 22 dBu	
Input Impedance	20 kΩ	
Maximum Input Level	22 dBu	
Nominal Input Level	4 dBu	
AUDIO OUTPUTS	ANALOG	AMPLINK
Outputs	2	8 digital
Connectors	2-pin inverted Euroblock	RJ-45 (Thru)
Nominal Output Level	2 x 120 W @ 4 Ω, 2 x 60 W @ 8 Ω	
INDICATORS AND CONTROLS		
Power LED	Solid blue indicates power is on, blinking blue indicates standby mode.	
Input Signal Clip LED	Green indicates input signal is within -37 dBu to 11 dBu, red indicates signal is over 11 dBu.	
Output Signal Clip LED	Green indicates output signal is within -46 dBFS to -2 dBFS, red indicates signal is over -2 dBFS, approximately 80 W/channel, for each output 120 watts is 0dBFS.	
AmpLink ERR LED	Solid yellow indicates muted audio from the mute connector. Blinking yellow indicates an error, which will also mute the audio.	
AmpLink LNK LED	Solid green indicates normal operation.	
Controls, Front Panel	Power On/Off	
Controls, Rear Panel	Auto Standby: On/Off switch, Output: Stereo/Mono switch, Mute, Output trims, Remote RJ-45	
ELECTRICAL		
Mains Voltage	100 VAC - 240 VAC (±10%, 50/60 Hz)	
AC Power Consumption	13 W (Standby)	300 W (Max)
Mains Connector	Standard IEC (C14)	
Maximum Inrush Current	12.6 Amps (230 VAC / 50 Hz), 7.8 Amps (120 VAC / 60 Hz)	
Overload Protection	High temperature, output short, excessively low or high AC line voltage	
PHYSICAL		
Dimensions (H x W x D)	1.7" H x 19.0" W x 12.8" D (44 mm x 483 mm x 324 mm)	
Shipping Weight	11.5 lb (5.2 kg)	
Net Weight	9.0 lb (4.1 kg)	
Cooling System	Single fan creates continuous left-to-right air flow	
GENERAL		
Inputs (Control)	1 RJ-45 remote input for a CC-1 ControlCenter zone controller. Mute input control via a normally open contact closure.	

For additional specifications and application information, please visit pro.bose.com. Specifications subject to change without notice