

FreeSpace® IZA 2120-HZ / IZA 2120-LZ integrated zone amplifier

FreeSpace® ZA 2120-HZ / ZA 2120-LZ zone amplifier



APPLICATIONS

Stereo Classroom Example

Requirements:

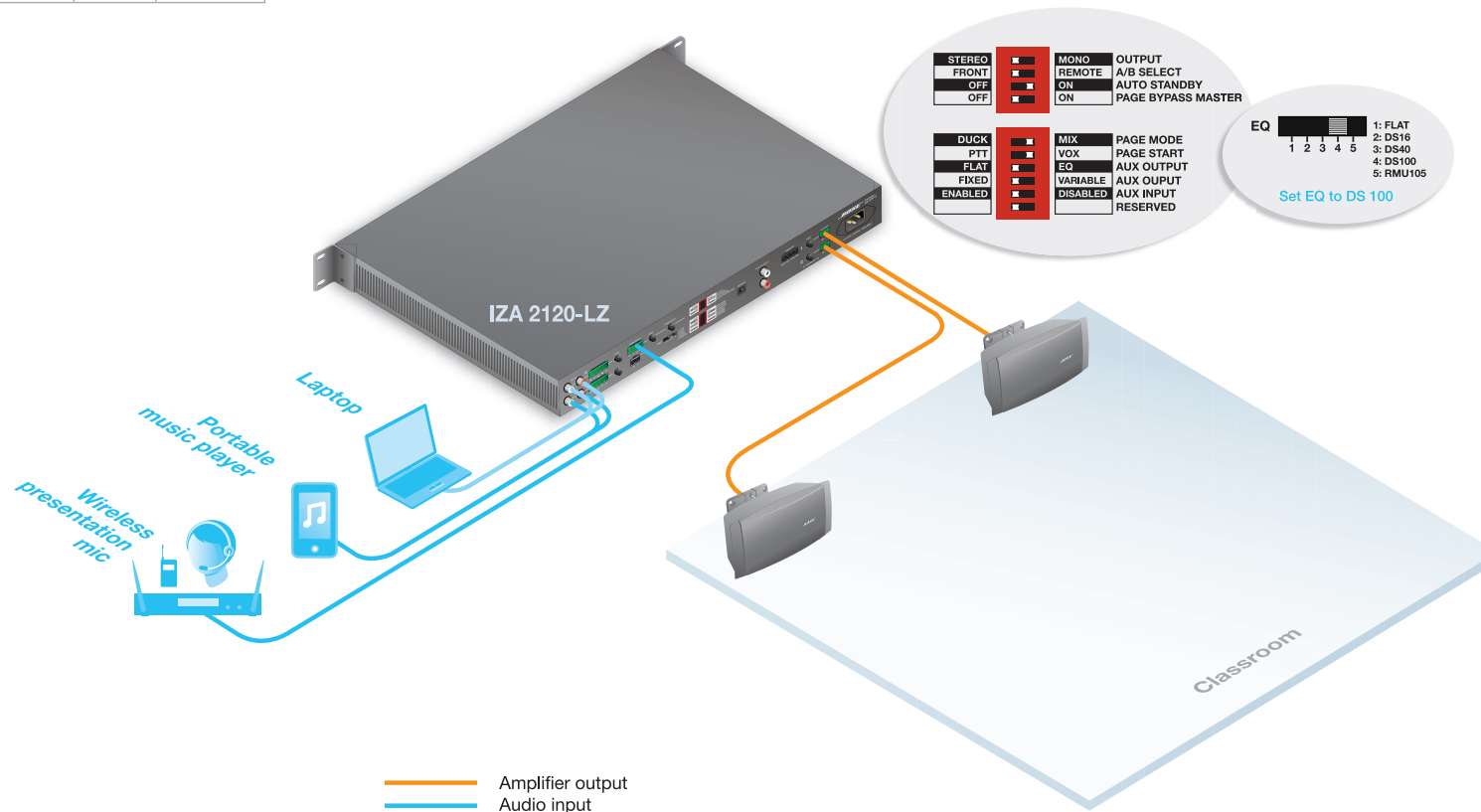
- User access to volume control, source selection, and paging with mixing for voice lift
- Three audio sources: a wireless presentation microphone, a portable music player, and a laptop

Solution:

Inputs		Mic Mode
Program		
Wireless presentation mic	Mono	Mix (VOX)
Portable music player	Stereo	
Laptop	Stereo	

Outputs					
Amp	Zones	Mode	Zones	Loudspeakers	Power/Ch
IZA 2120-LZ	1	Stereo	1	(1) DS 100 / RMU105	60 W
				(1) DS 100 / RMU105	60 W

Control	
Level	Source
Front Panel	Front Panel

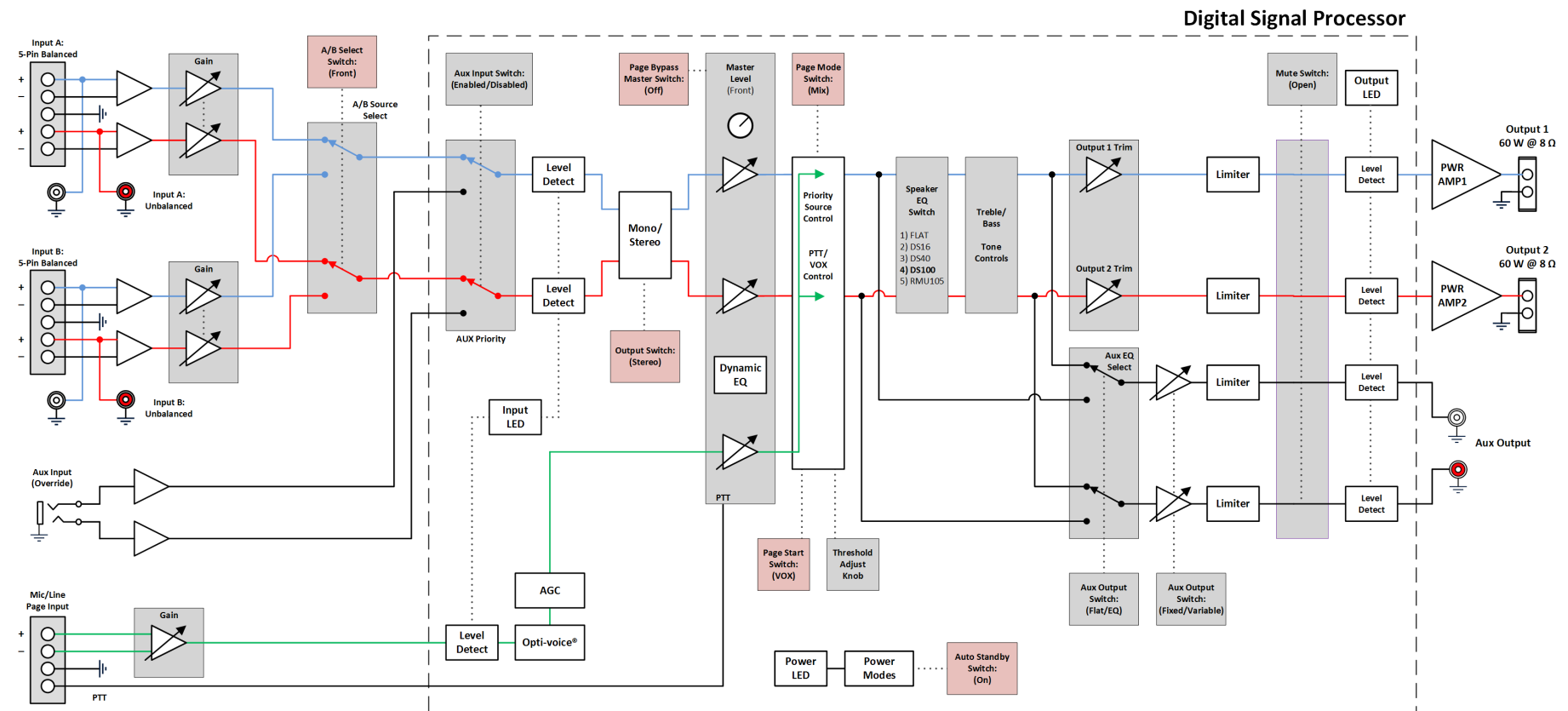




Stereo Classroom Example – Cont.

IZA 2120-LZ Block Diagram

The front panel input switch selects either INPUT A (laptop), as shown in the diagram, or INPUT B (portable music player) as the audio source. The wireless microphone receiver on the PAGE input will mix with the selected audio source when a voice stimulus is detected. The red DIP switches have been set for this application.



APPLICATIONS

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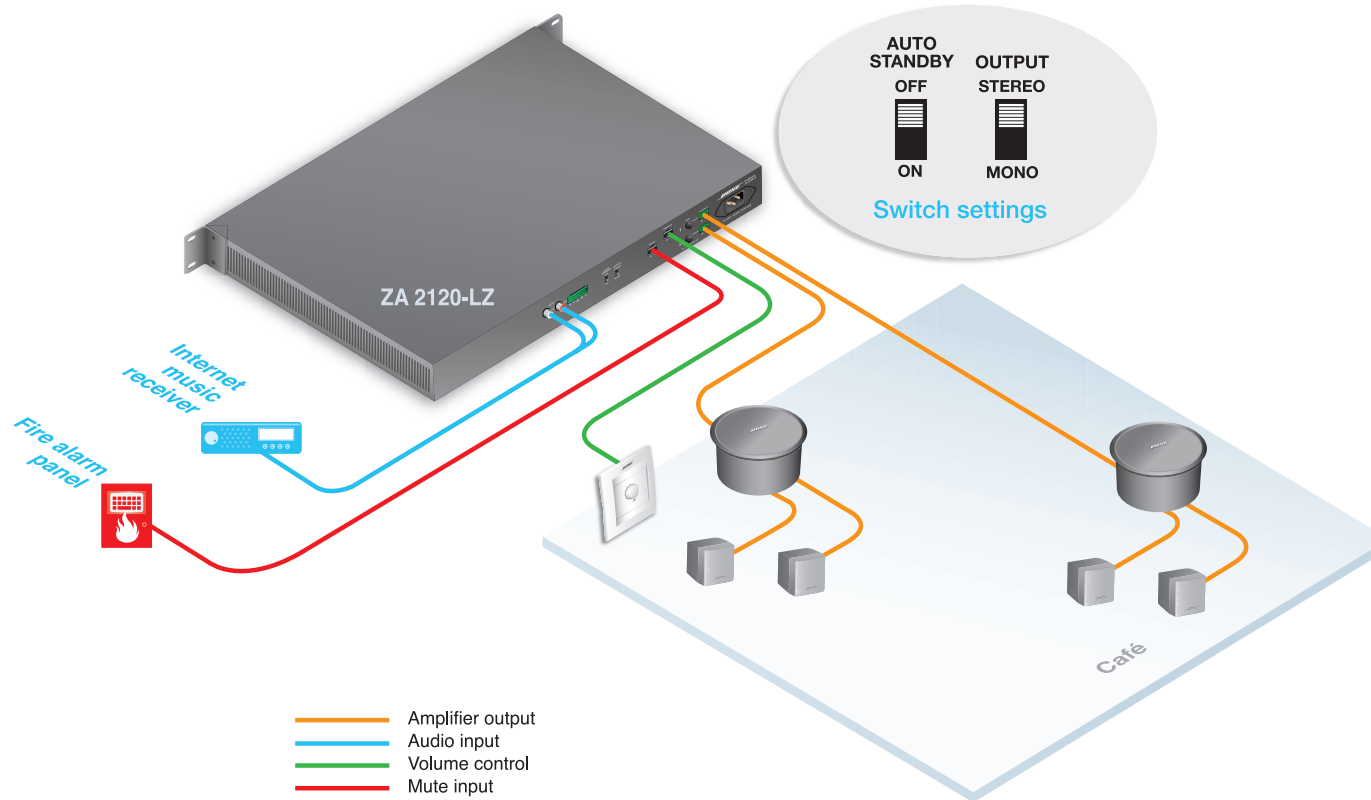
Stereo Café Example

Requirements:

- Wall-mounted volume control
- One stereo audio source: an Internet music receiver
- Emergency muting by the fire alarm panel

Solution:

Inputs			Outputs					Control		
Program		Mic Mode	Amp	Zones	Mode	Zones	Loudspeakers	Power/Ch	Level	Source
Internet music receiver	Stereo	N/A	ZA 2120-LZ	1	Stereo	1	(1) FS3-2	90 W	Remote	N/A
							(1) FS3-2	90 W		

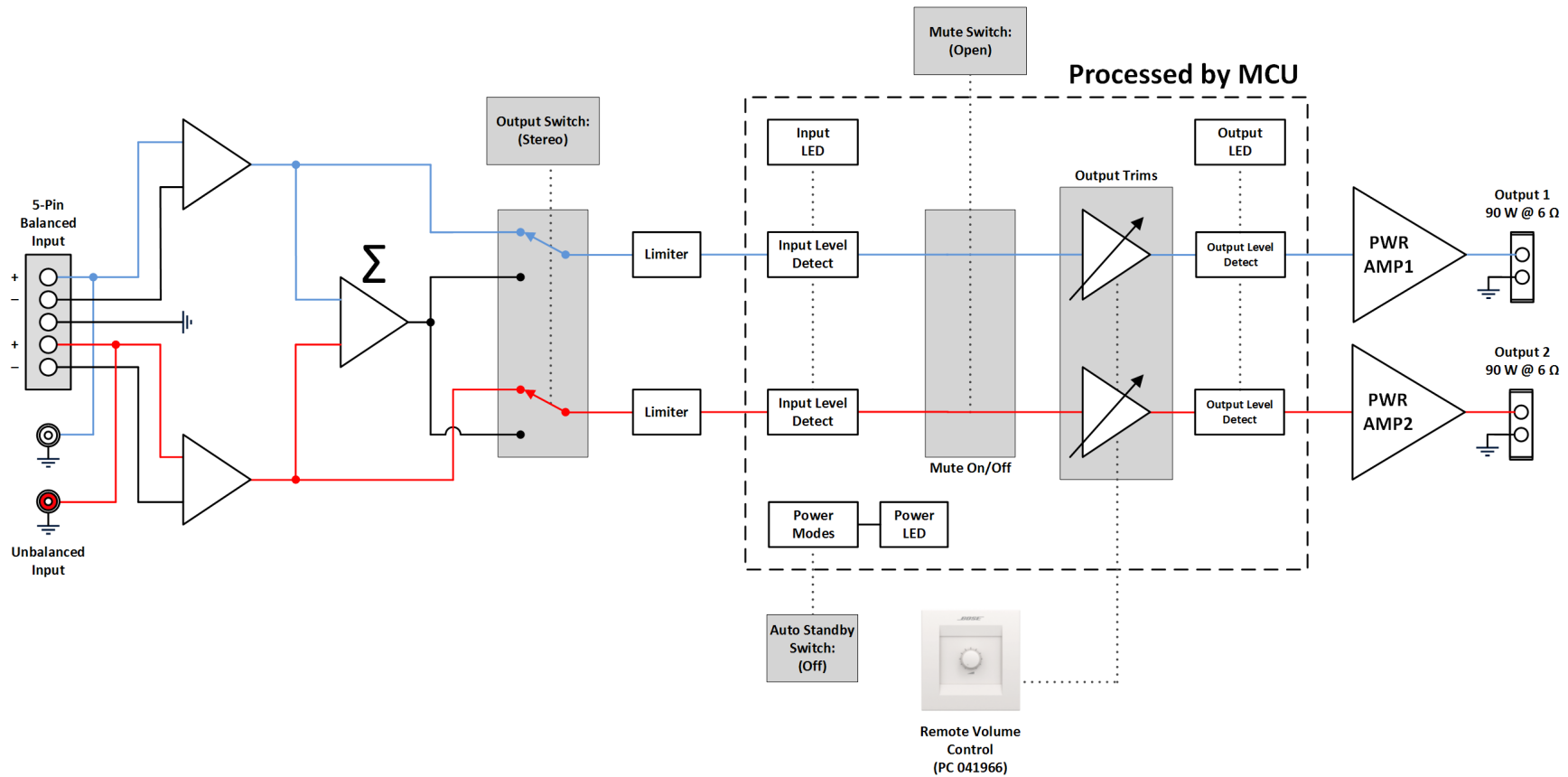




Stereo Café Example – Cont.

ZA 2120-LZ Block Diagram

The amplifier is connected to a stereo source on the unbalanced input.



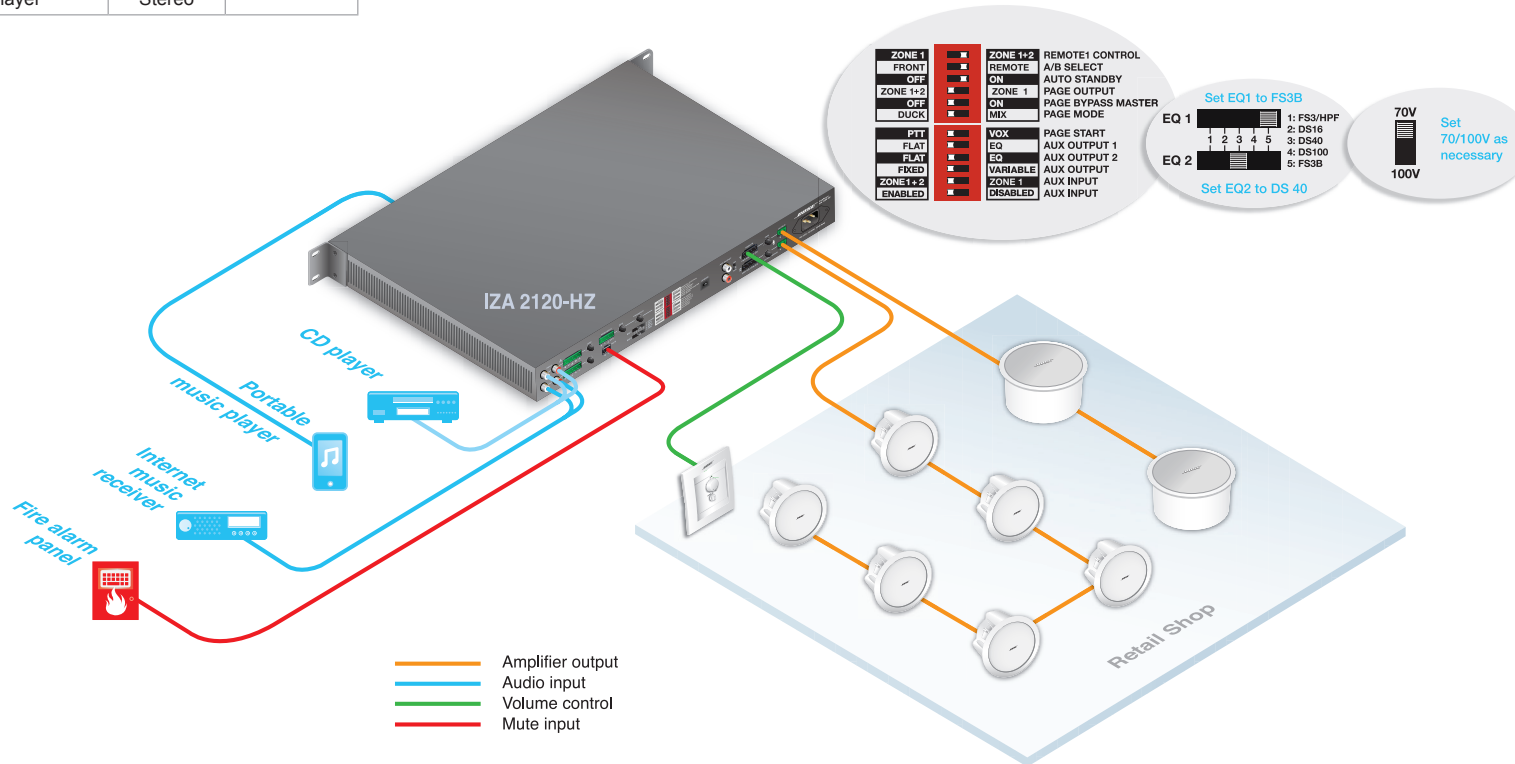
Bi-Amping Example

Requirements:

- Two different loudspeaker types in one zone
- Wall-mounted volume control and source selection
- Three audio sources: an Internet music receiver, portable music player, and a CD player
- Emergency muting by the fire alarm panel

Solution:

Inputs			Outputs				Control			
Program	Mic Mode		Amp	Zones	Mode	Zones	Loudspeakers	Power/Ch	Level	Source
Internet music receiver	Stereo	N/A	IZA 2120-HZ	1	Bi-amp	1	(2) FS3B @ 50 W	100 W	Remote	Remote
Portable music player	Stereo						(6) DS 40 @ 20 W	120 W		
CD player	Stereo									



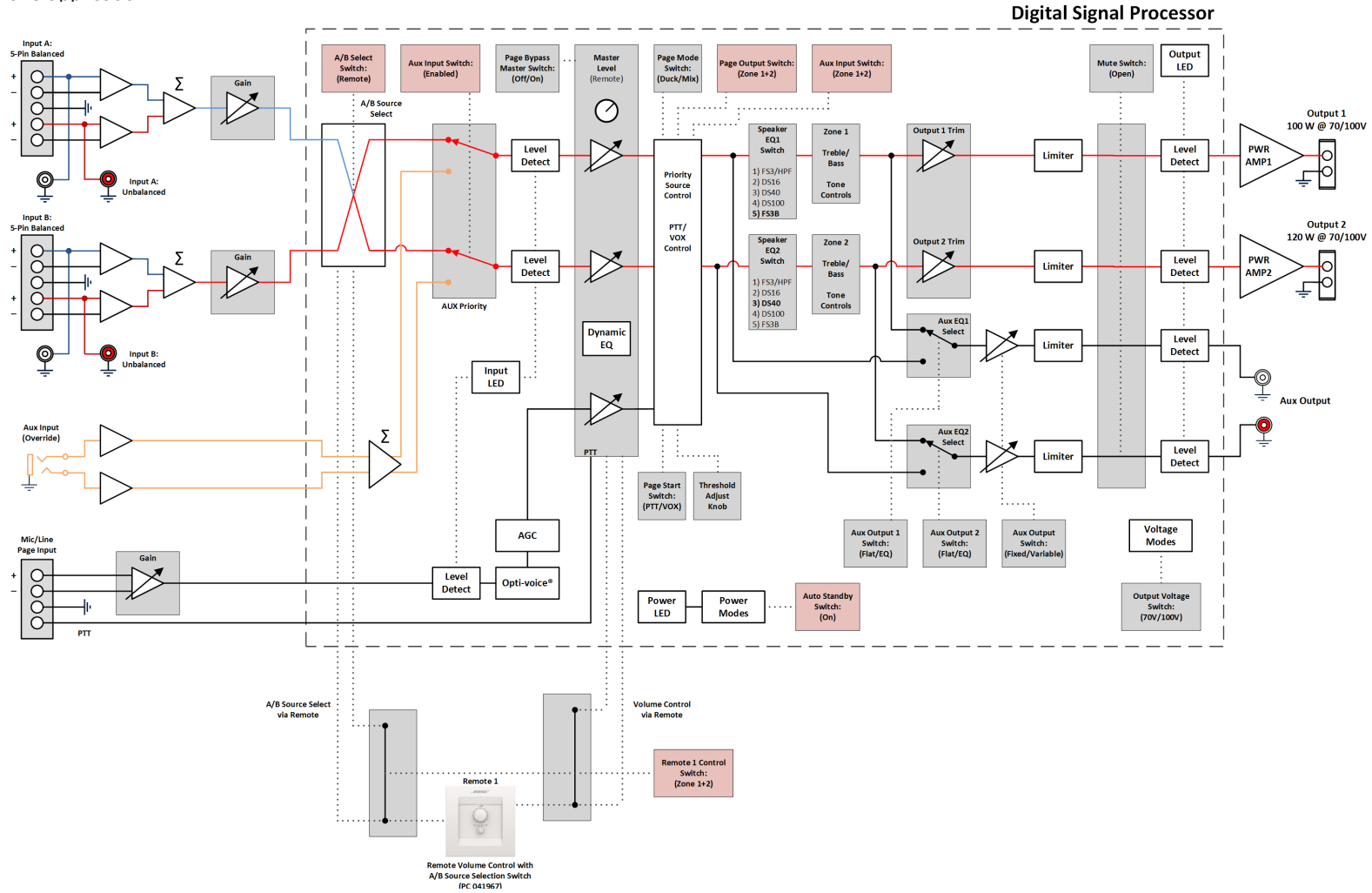


Bi-Amping Example – Cont.

IZA 2120-HZ Block Diagram

The remote source switch selects either INPUT A (CD player) or INPUT B (Internet music receiver), as shown in the diagram, as the audio source. A cable insertion into the AUX INPUT mutes INPUT A and INPUT B for priority override. REMOTE 1, PAGE OUTPUT, and AUX INPUT are all configured for one zone. The red DIP switches have been set for this application.

APPLICATIONS



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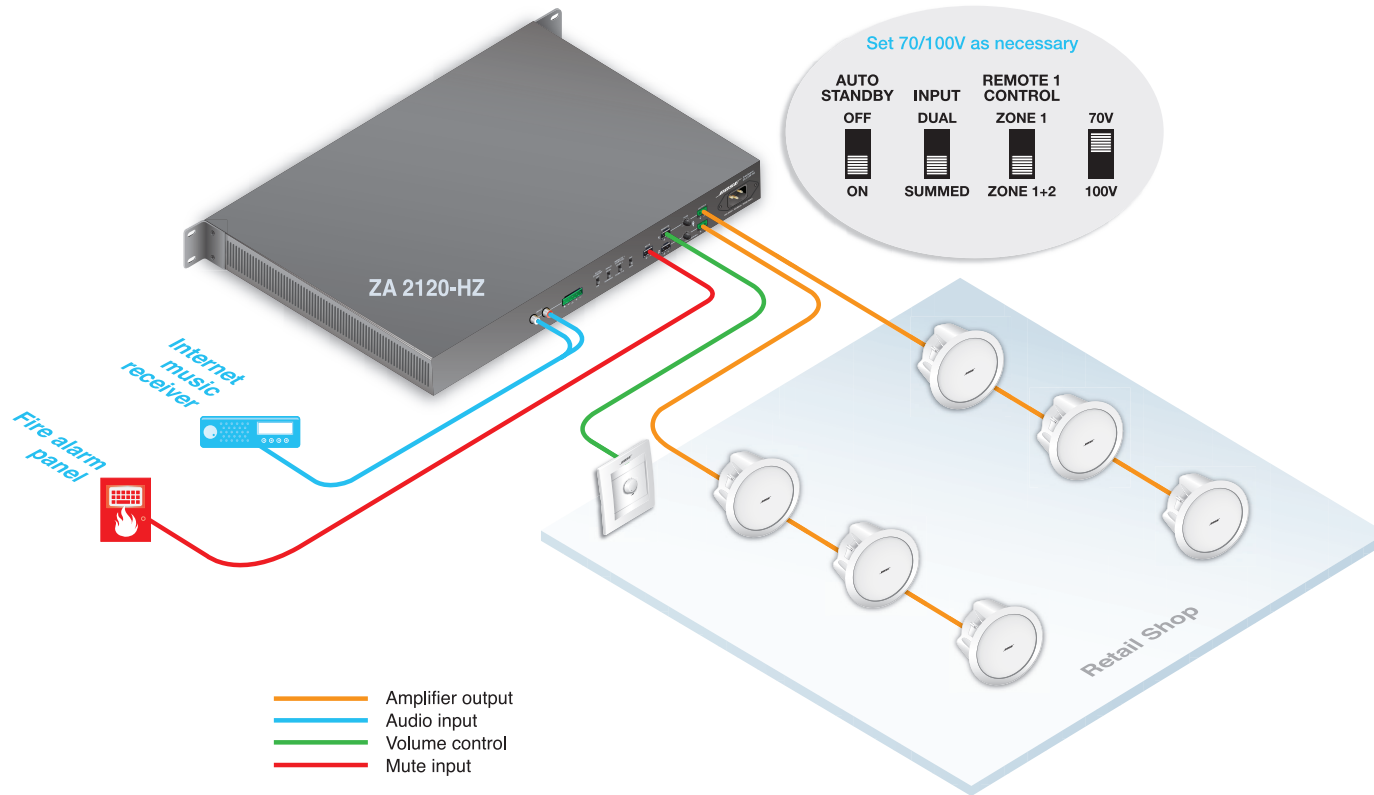
Retail Example

Requirements:

- Wall-mounted volume control
- One audio source: an Internet music receiver
- Emergency muting by the fire alarm panel

Solution:

Inputs			Outputs				Control			
Program	Mic Mode		Amp	Zones	Mode	Zones	Loudspeakers	Power/Ch	Level	Source
Internet music receiver	Stereo	N/A	ZA 2120-HZ	1	Mono	1	(3) DS 40 @ 40 W (3) DS 40 @ 40 W	120 W 120 W	Remote	N/A

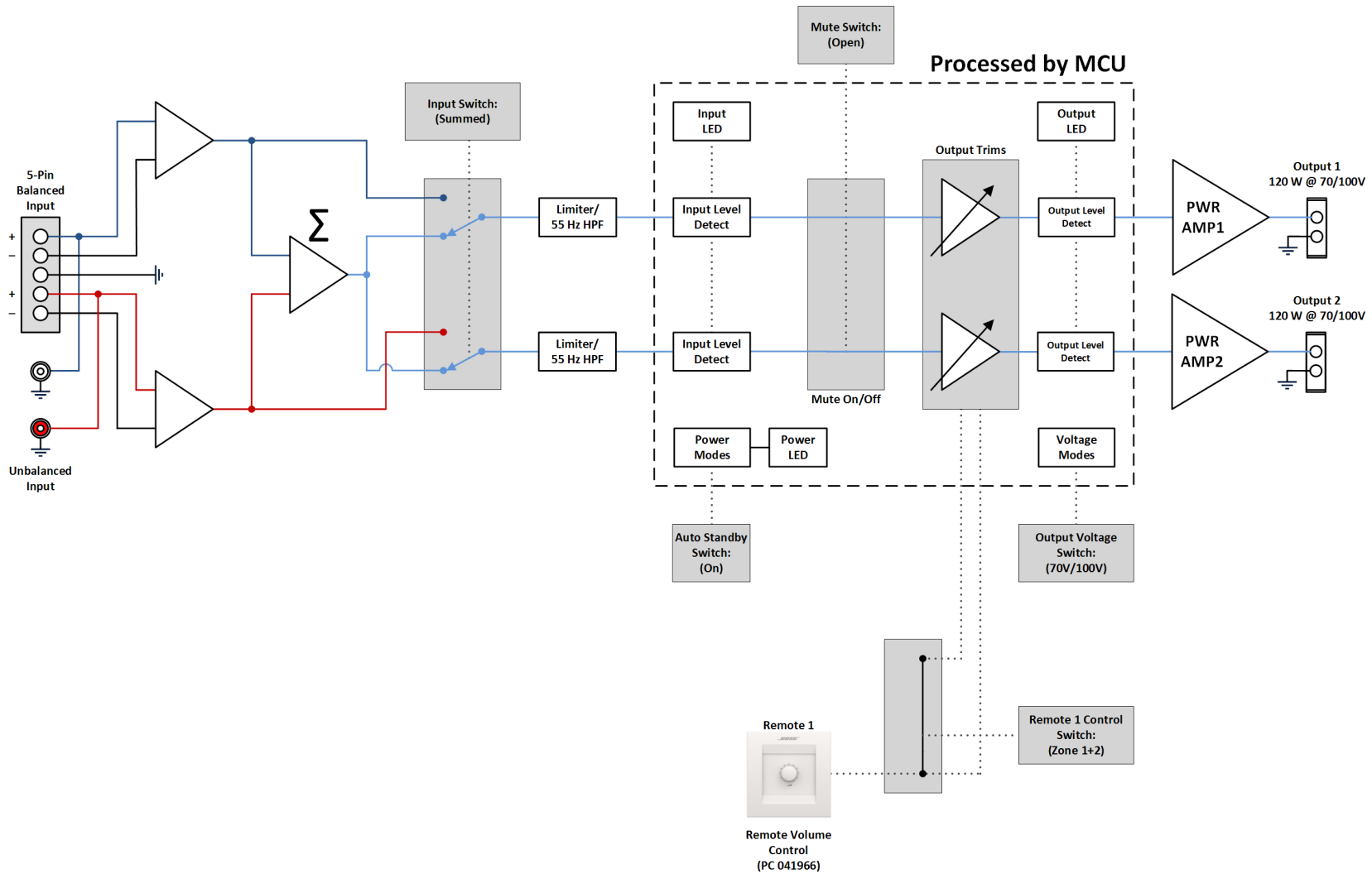




Retail Example – Cont.

ZA 2120-HZ Block Diagram

The amplifier is connected to a stereo source on the unbalanced input that is summed to mono. REMOTE 1 is configured to control both outputs simultaneously.



APPLICATIONS

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APPLICATIONS

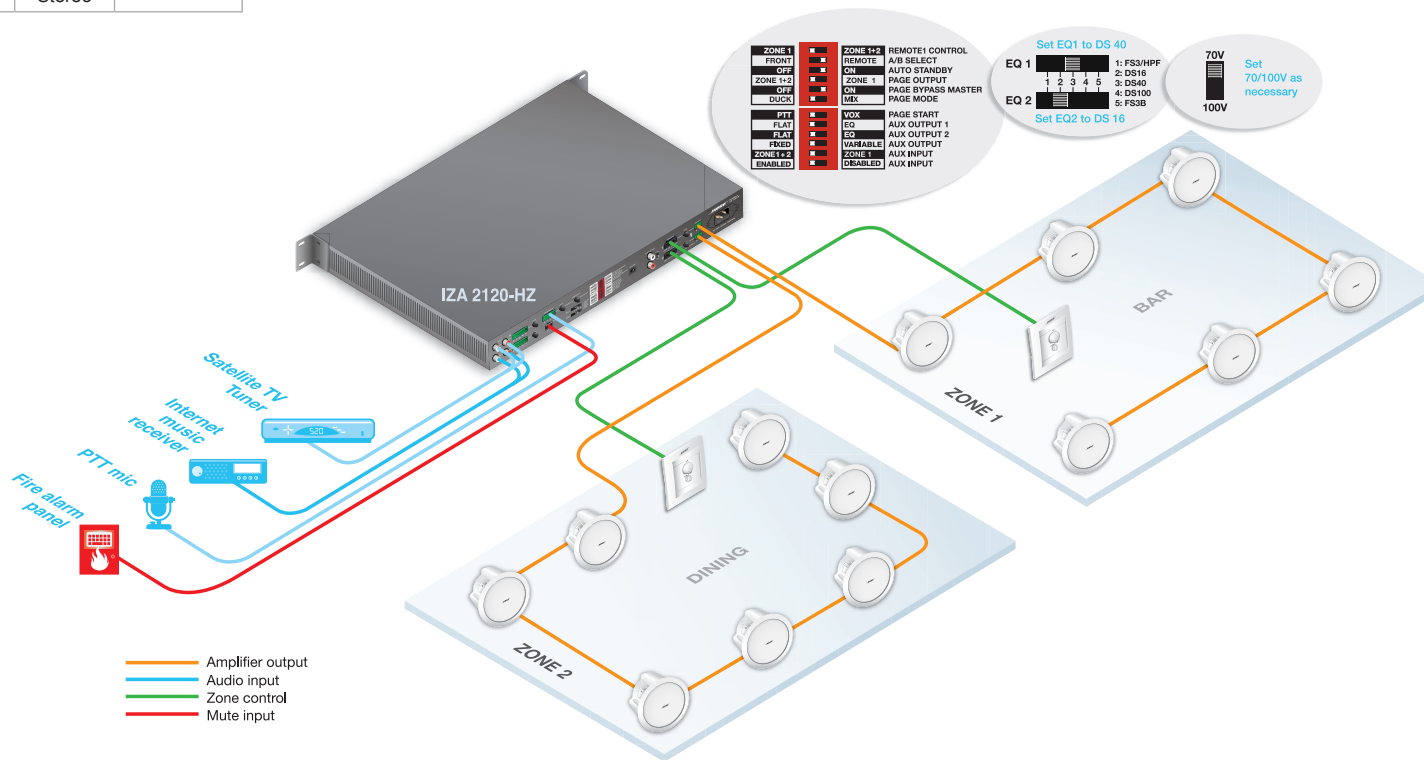
True Two-Zone Bar/Restaurant Example

Requirements:

- Independent audio in two zones
- Wall-mounted volume control and source selection in each zone
- Three audio sources: a push-to-talk (PTT) microphone for paging, an Internet music receiver, and a satellite TV tuner
- Emergency muting by the fire alarm panel

Solution:

Inputs			Outputs				Control			
Program	Mic Mode		Amp	Zones	Mode	Zones	Loudspeakers	Power/Ch	Level	Source
PTT mic	Mono	Duck (PTT)	IZA 2120-HZ	2	Mono	2	(6) DS 40 @ 20 W	120 W	Remote (Bar)	Remote (Bar)
Internet music receiver	Stereo						(7) DS 16 @ 16 W	112 W	Remote (Dining)	Remote (Dining)
Satellite TV tuner	Stereo									

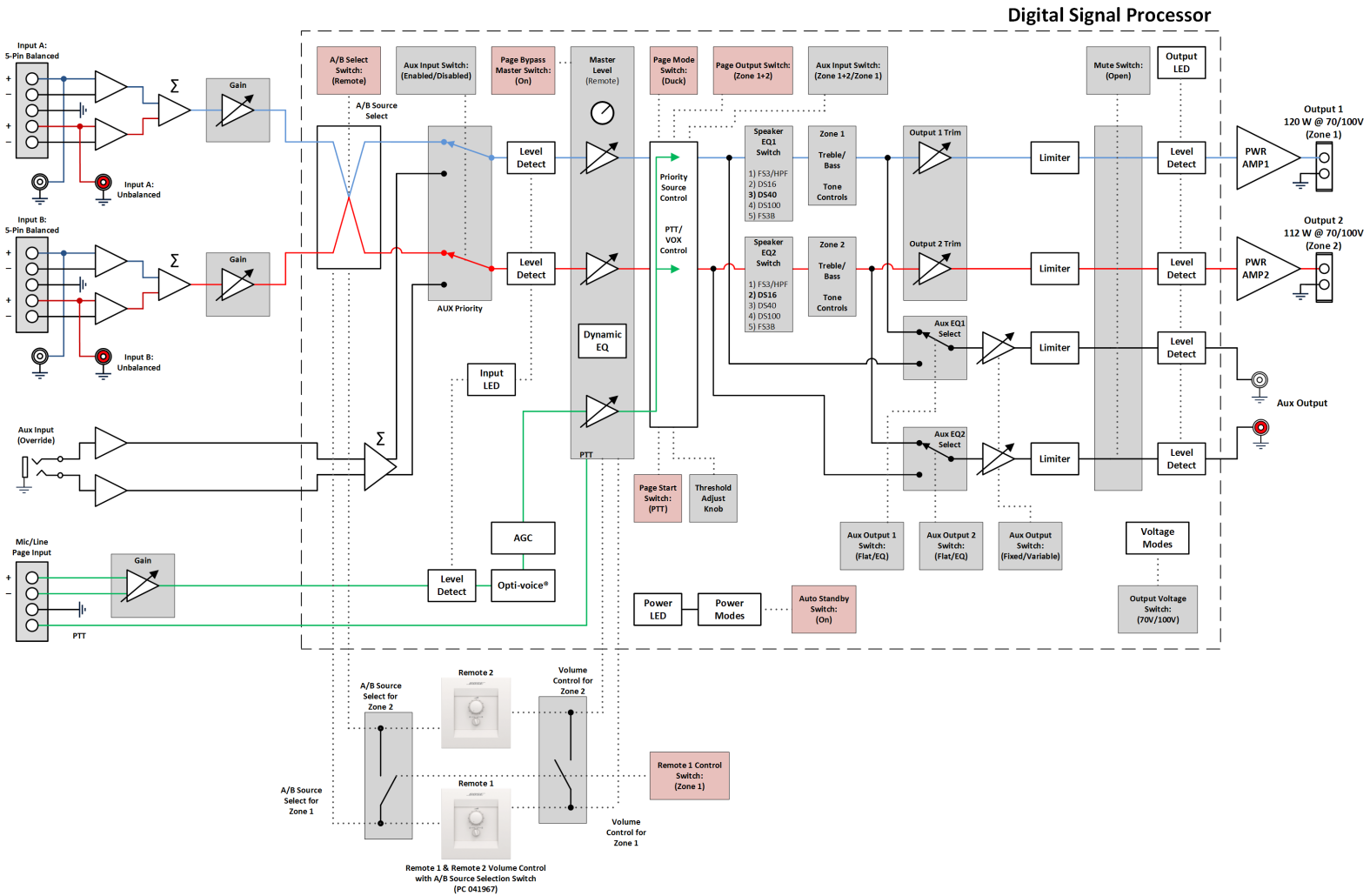




True Two-Zone Bar/Restaurant Example – Cont.

IZA 2120-HZ Block Diagram

The remote source switches (Remote 1 and Remote 2) select either Input A (Satellite TV tuner for Zone 1) or Input B (Internet music receiver for Zone 2). The Page Input is routed to both zones once PTT is activated. The red DIP switches have been set for this application.



APPLICATIONS

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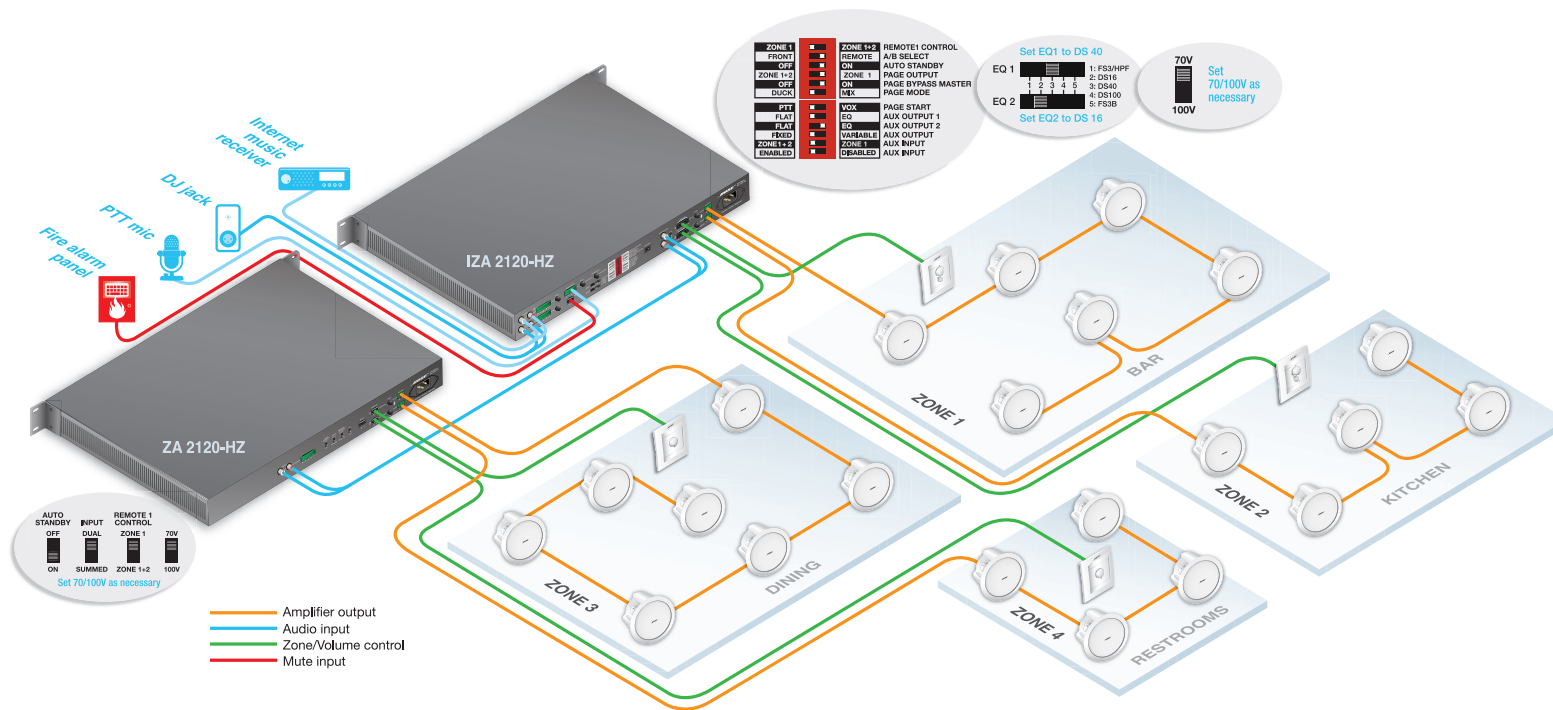
Four-Zone Restaurant Example

Requirements:

- Independent audio in two zones with independent level control in four zones
- Wall-mounted volume control in each zone
- Three audio sources: a push-to-talk (PTT) microphone for paging, a DJ device, and an Internet music receiver
- Emergency muting by the fire alarm panel

Solution:

Inputs			Outputs				Control			
Program		Mic Mode	Amp	Zones	Mode	Zones	Loudspeakers	Power/Ch	Level	Source
PTT mic	Mono	Duck (PTT)	IZA 2120-HZ	4	Mono	4	(6) DS 40 @ 20 W	120 W	Remote (Bar)	Remote (Bar)
DJ Jack	Stereo						(5) DS 16 @ 16 W	80 W	Remote (Kitchen)	Remote (Kitchen)
Internet music receiver	Stereo		(7) DS 16 @ 16 W				112 W	Remote (Dining)	N/A	
			ZA 2120-HZ				(4) DS 16 @ 8 W	32 W	Remote (Restrooms)	N/A



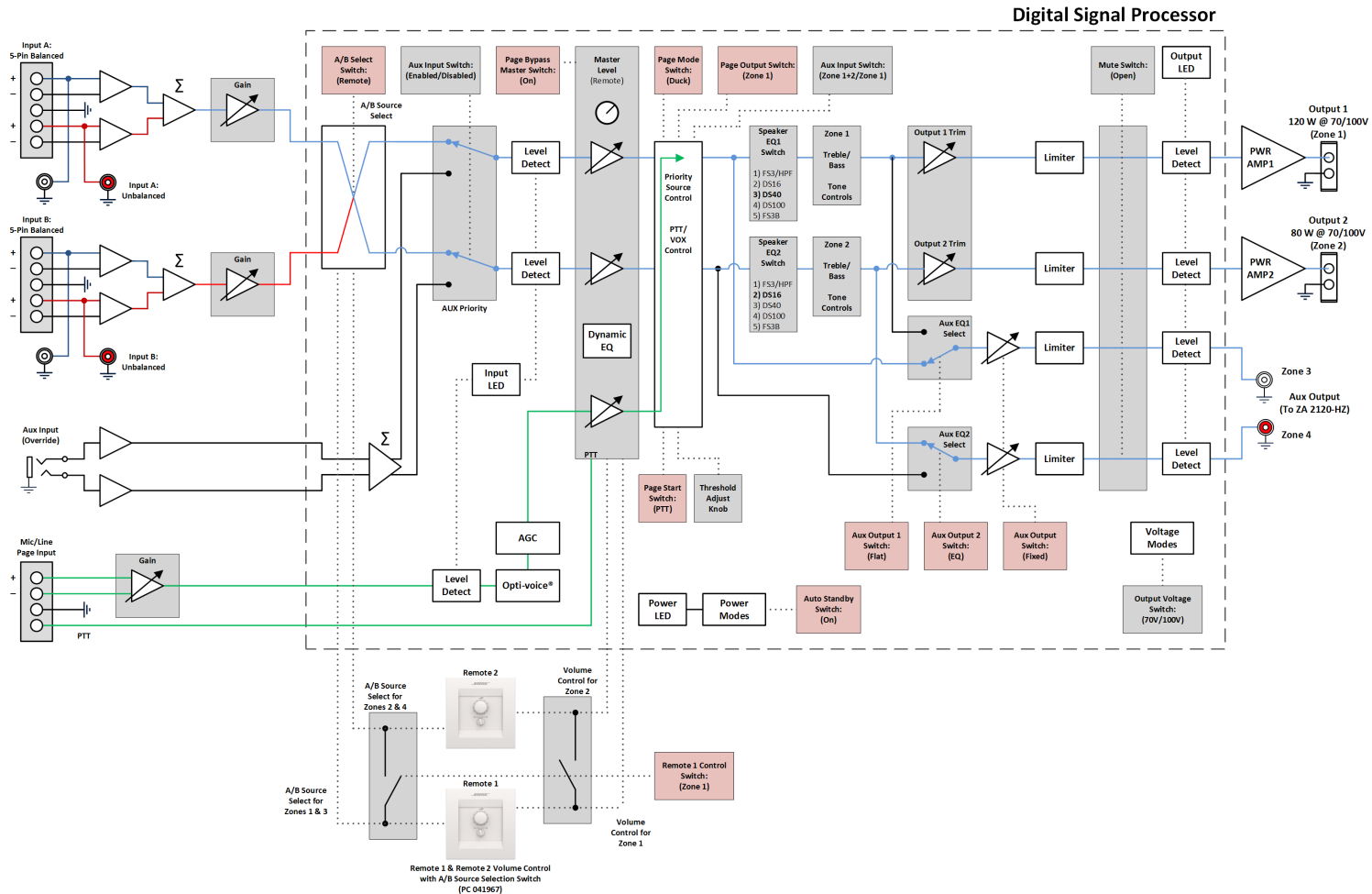
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Four-Zone Restaurant Example – Cont.

IZA 2120-HZ Block Diagram

Remote source switches Remote 1 and Remote 2 select the audio source for Zones 1-4: INPUT A (Internet music receiver) or INPUT B (DJ device). Since the two IZA 2120-HZ remotes control source selection, a maximum of two source zones can be created. Zones 1 and 3 share the same source and OUTPUT 1 of each amplifier, and zones 2 and 4 share the same source and OUTPUT 2 of each amplifier. Zones 3 and 4, driven by the ZA 2120-HZ, have independent volume control with remotes by setting the Auxiliary Output of the IZA 2120-HZ to (FIXED). The AUX OUTPUT 1 (White) and AUX OUTPUT 2 (Red) DIP switches determine if the auxiliary outputs will either have no EQ (FLAT) or an EQ determined by the EQ 1 and EQ 2 slide switch position (EQ). PAGE OUTPUT is routed to zones 1 and 3 once PTT is activated. The red DIP switches have been set for this application.



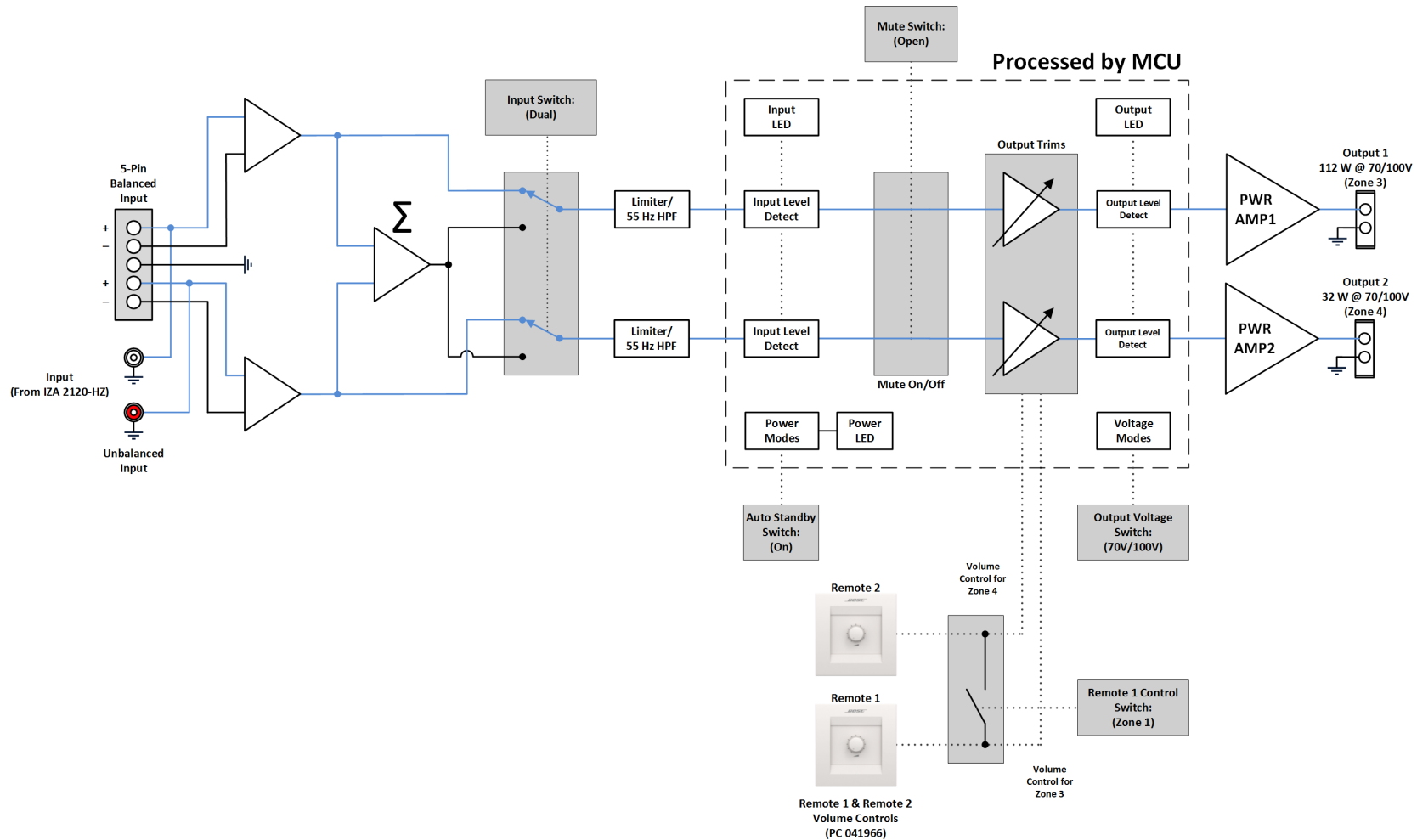
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Four-Zone Restaurant Example – Cont.

ZA 2120-HZ Block Diagram

The input of the amplifier is set to DUAL to accommodate two separate mono unbalanced inputs from the IZA 2120-HZ auxiliary output. REMOTE 1 and REMOTE 2 have been set for independent volume control.



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Auxiliary Zone Expansion Example

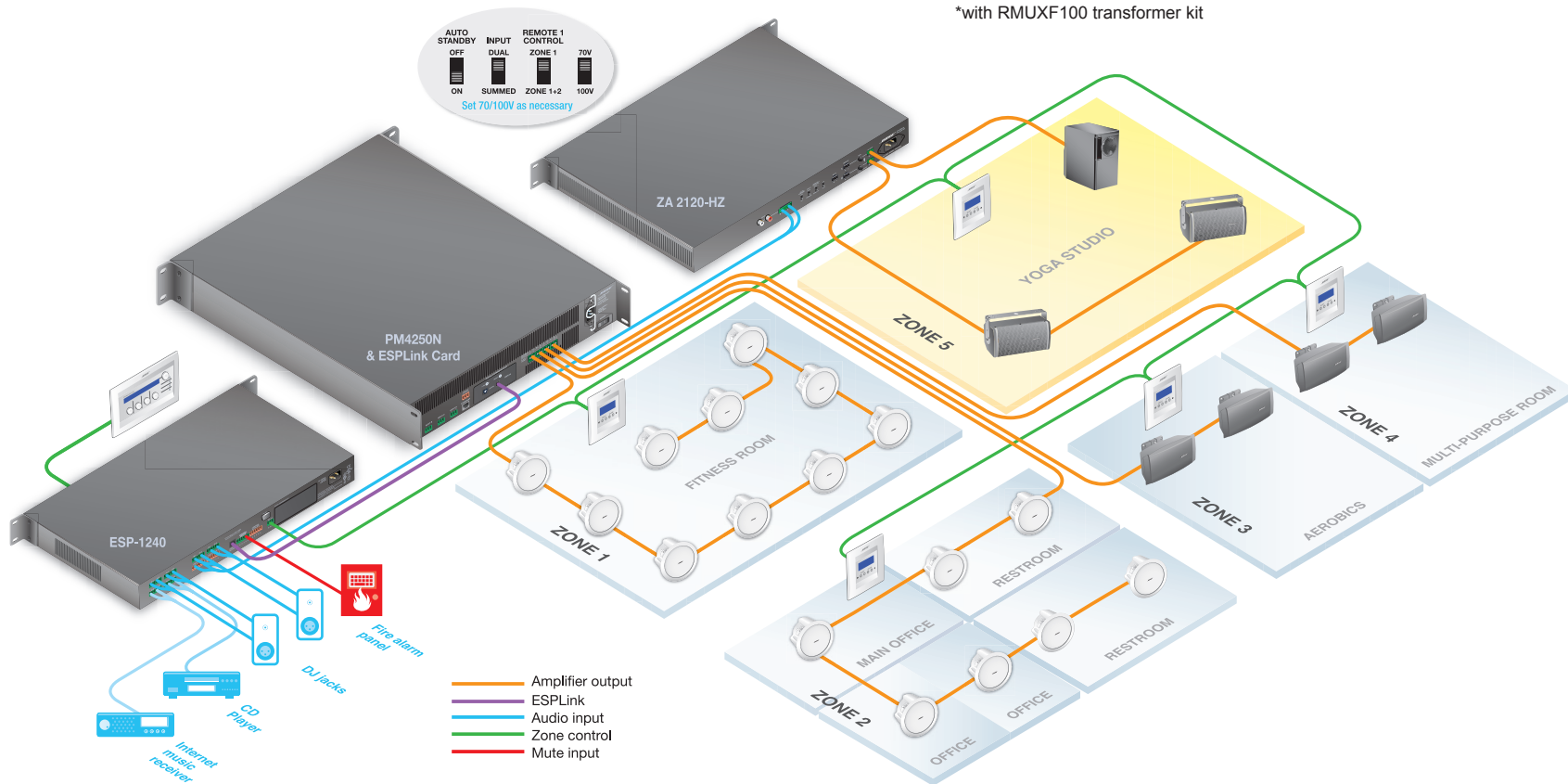
Requirements:

- There is a need to drive an additional zone
- One audio source: a ControlSpace® engineered sound processor

Solution:

Inputs			Outputs					Control		
Program	Mic Mode		Amp	Zones	Mode	Zones	Loudspeakers	Power/Ch	Level	Source
ESP-1240	Stereo	N/A	ZA 2120-HZ	1	Mono	N/A	(1) FS3B @ 100 W (2) RMU105 @ 50 W*	100 W 100 W*	N/A	N/A

*with RMUXF100 transformer kit



APPLICATIONS



Auxiliary Zone Expansion Example – Cont.

ZA 2120-HZ Block Diagram

The input of the amplifier is set to DUAL to accommodate two separate balanced mono inputs from the ControlSpace® ESP-1240 engineered sound processor.

