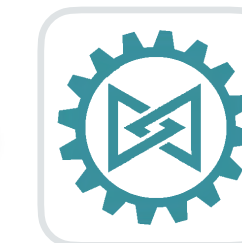




Integrator Series

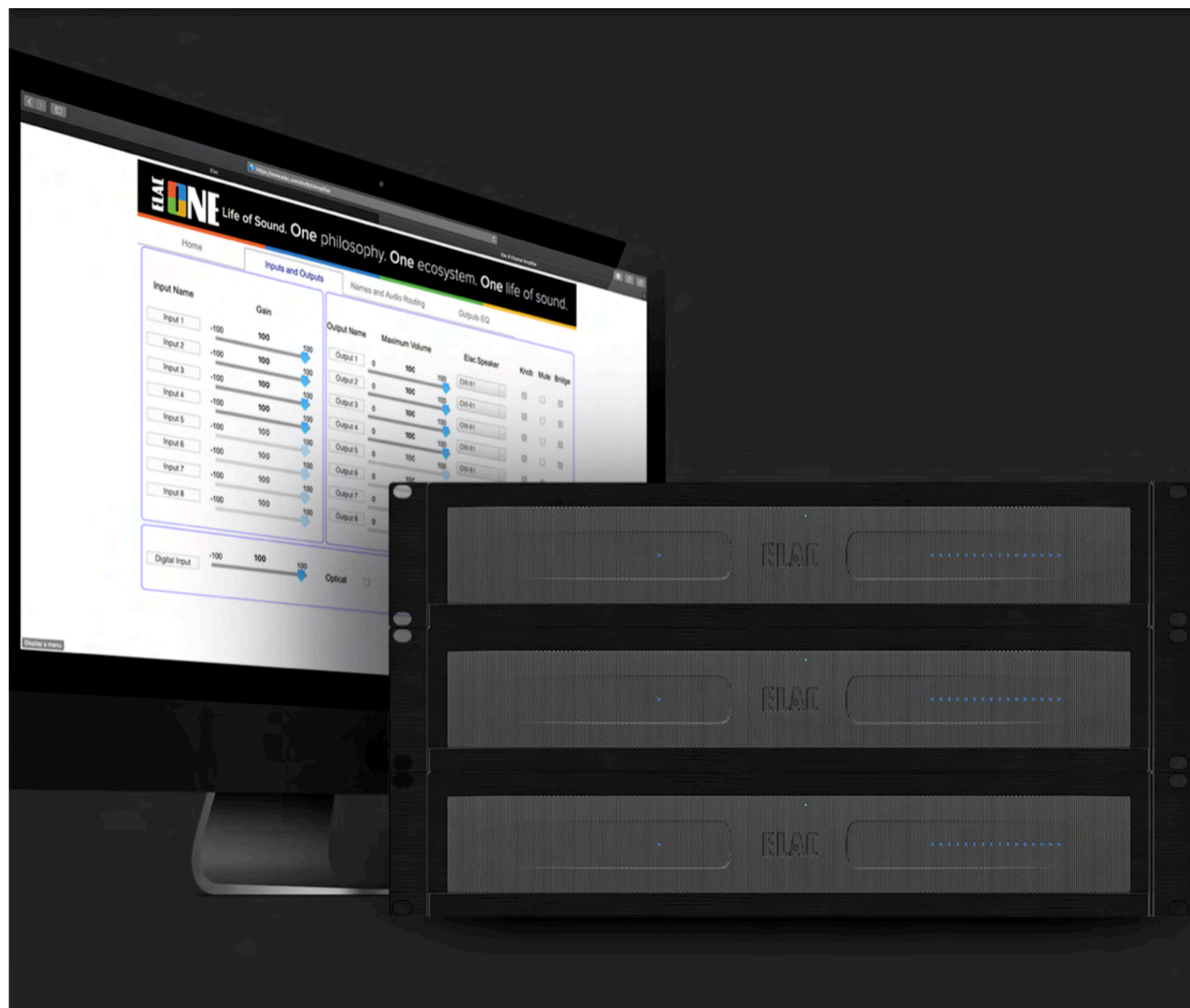


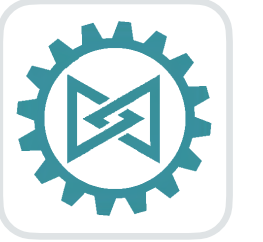
INTEGRATOR SERIES AMPLIFIERS

POWERFUL INTEGRATION, REINVENTED

Elac's multi-channel amplifiers provide full matrix capability, any input to any output. Discrete Class D amplifiers ensure robust power even under the most demanding loads. Unique assignable outputs allow for the easy addition of powered subwoofers and amplifiers to multiple zones.

Each ELAC Multi-channel amplifier uses a modular design and efficient Class D amplifiers available in 8, 12, and 16 channels. Each channel features Elac's advanced DSP that allows for great flexibility when setting up each zone. A full Parametric Equalizer can be used for each output or simply use one of the presets for ELAC speakers to simplify the setup. An intuitive WEB GUI allows for easy setup and tuning of the amplifier.

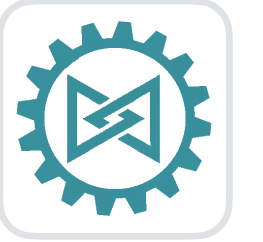




ELAC recognized an opportunity to deliver multichannel amplifiers with features that were not available from other manufacturers.

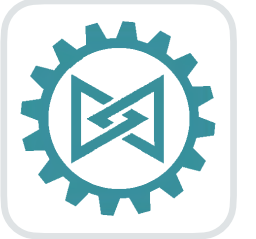
The addition of multichannel amplifiers to the ELAC ecosystem was a natural progression of our engineering direction. They compliment all of the existing products, as well as create a unique level of flexibility for an integrator.

ELAC has created a series of 8, 12 and 16 channel amplifiers to fit any project.



Our background is in Hi-Fi audio.

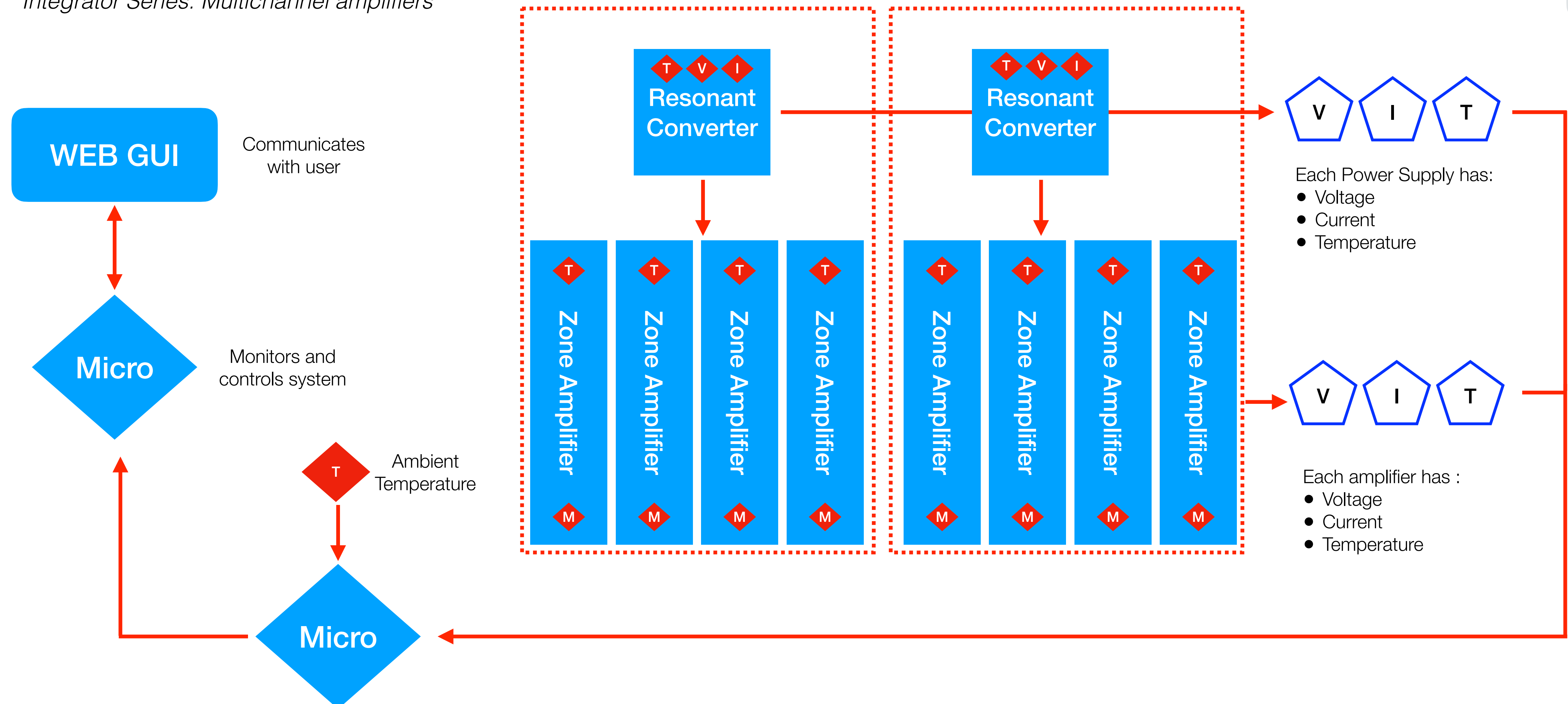
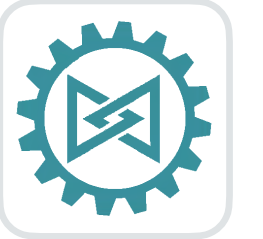
Our custom designed amplifiers are engineered with the needs of CI in mind.



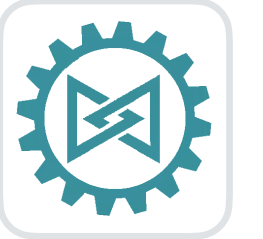
Elac's multi channel amplifier is an advanced architecture to allow flexibility and continuous safe operation.

As many as 10 micro-processors, 3 DSP, 10 thermal sensors and many GPIOs working to maintain and respond to any situation.

Each zone has 16 bit micro-processors to monitor voltages, current and temperature.



Sophisticated monitoring system to ensure continuous operation. Monitors 10 thermal points, with 10 Microprocessors, 3 DSP and 1 CPLD to provide a rich reliable experience



All of our DSP multi-channel amplifiers feature assignable outputs:

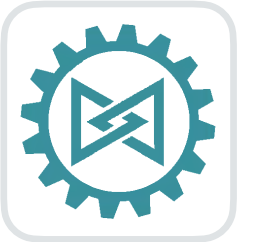
- 8 channel - (4 assignable outputs)
- 12 channel - (8 assignable outputs)
- 16 channel - (8 assignable outputs)

Power a room of in-ceiling speakers with the built-in amplifiers and assign one of the outputs to a powered subwoofer in the same room. You can even apply high-pass filters to the in-ceiling speakers.

[illegible]

Our advanced DSP provides full audio matrixing, allowing any input to output.

The assignable outputs are part of the overall matrix. For example, subwoofers can be combined as part of the matrix to compliment any given zone.



Input and output level matching is done in real time. No save is required.

The amplifiers can also be bridged.

ELAC

ONE

Life of Sound. One philosophy. One ecosystem. One life of sound.

Home

Inputs and Outputs

Names and Audio Routing

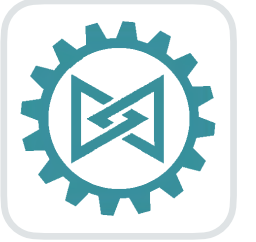
Outputs EQ

Input Name	Gain [dB]
Input 1	-12 -5 0
Input 2	-12 0 0
Input 3	-12 0 0
Input 4	-12 0 0
Input 5	-12 0 0
Input 6	-12 0 0
Input 7	-12 0 0
Input 8	-12 0 0

Output Name	Maximum Volume [%]	Elac Speaker	Mute	Bridge
Output 1	0 50 100	OW4.2	<input type="checkbox"/>	<input type="checkbox"/>
Output 2	0 50 100	OW4.2	<input type="checkbox"/>	<input type="checkbox"/>
Output 3	0 50 100	OW4.2	<input type="checkbox"/>	<input type="checkbox"/>
Output 4	0 50 100	OW4.2	<input type="checkbox"/>	<input type="checkbox"/>
Output 5	0 50 100	OW-61	<input type="checkbox"/>	<input type="checkbox"/>
Output 6	0 50 100	OW-61	<input type="checkbox"/>	<input type="checkbox"/>
Output 7	0 50 100	OW-61	<input type="checkbox"/>	<input type="checkbox"/>
Output 8	0 50 100	OW-61	<input type="checkbox"/>	<input type="checkbox"/>

-100 0 100

Optical ☐



ELAC ONE Life of Sound. **One** philosophy. **One** ecosystem. **One** life of sound.

Home

Inputs and Outputs

Names and Audio Routing

Outputs EQ

Output EQ Settings

Output 1

Elac Speaker

1

0

20

20000

High Pass, Hz

20

20000

20000

Low Pass, Hz

-6

0

6

Bass, dB

-6

0

6

Treble, dB

-100

0

100

Balance

PEQ Settings

PEQ1

20

63

20000

Frequency, Hz

.3

0.667

10

Q

-10

0

8

Gain, dB

PEQ2

20

250

20000

Frequency, Hz

.3

0.667

10

Q

-10

0

8

Gain, dB

PEQ3

20

1000

20000

Frequency, Hz

.3

0.667

10

Q

-10

0

8

Gain, dB

PEQ4

20

4000

20000

Frequency, Hz

.3

0.667

10

Q

-10

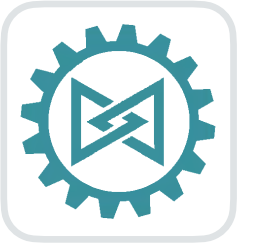
0

8

Gain, dB

All of the DSP amplifiers contain preset configurations for all ELAC in-wall / in-ceiling speakers to maximize their sonic performance.

Simply use the drop down menu and choose the model.



interface will display the status of the amplifier. The amplifier is constantly monitored to ensure everything is functioning within the design parameters.

All easily configured by our Password Protected Web based GUI.

ELAC

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Home

Inputs and Outputs

Names and Audio Routing

Outputs EQ

Power Mode

Always On

1

5

10

Audio Detect Level, mV

Reset

System

Factory

Save/Load

Save

Load

Firmware

Update

Output Name	Status	Clipping	Temperature
Output 1	On, Play		
Output 2	On, Play		
Output 3	On, Play		
Output 4	On, Play		
Output 5	On, Play		
Output 6	On, Play		
Output 7	On, Play		
Output 8	On, Play		

Password

Old Password

New Password

Confirm Password

Apply

Ethernet

DHCP

IP Address

192.168.0.159

Default Gateway

192.168.0.1

Netmask

255.255.255.0

Primary DNS

192.168.0.11

Secondary DNS

192.168.0.12

Host Name

AMP1650

UDP Port

49152

TCP Port 1

49153

TCP Port 2

49154

TCP Port 3

49155

Apply

Status: Off

Model: EA-MULTI

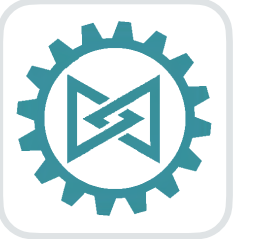
Firmware: 0.31.48.111.16

MAC: 80:1F:12:19:42:16

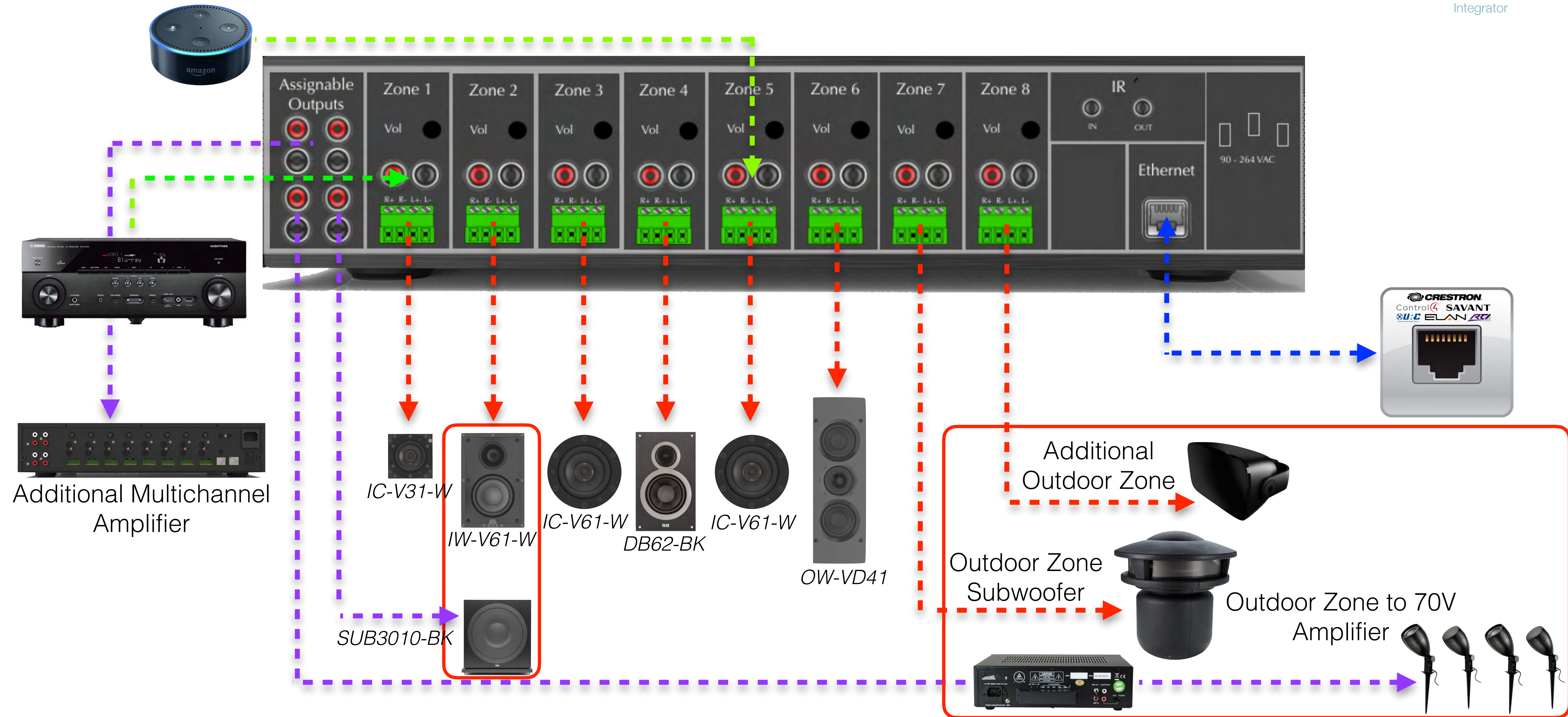
S/N: SN_16ch

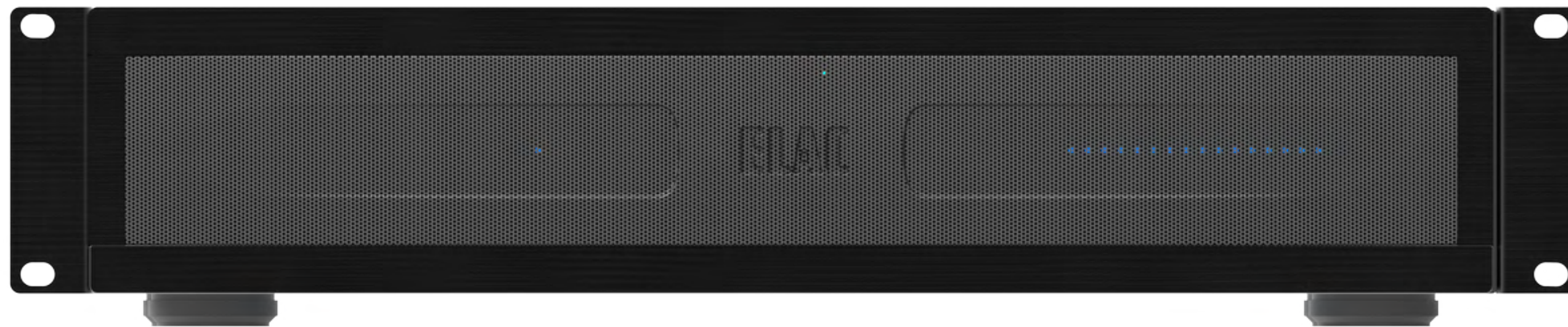
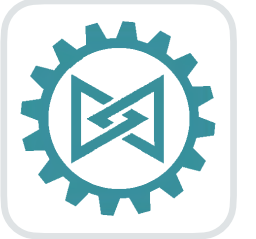
ELAC The life of sound.

Integrator Series: Multichannel amplifiers

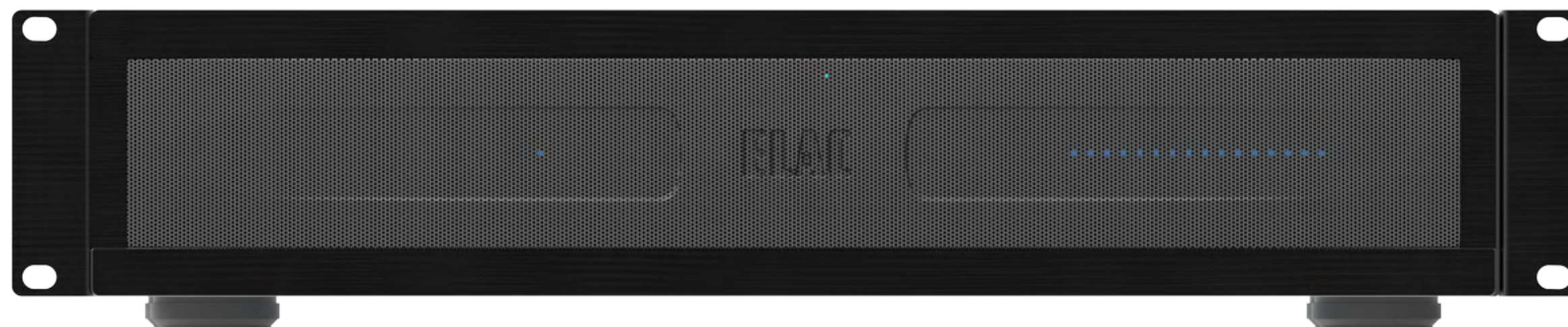
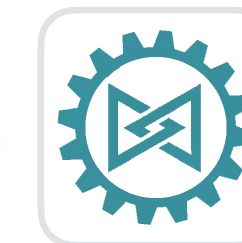


Integrator





- 2 RU rack mount
- Power by model
 - IS-AMP8100: 8 channels at 100 watts
 - IS-AMP1275: 12 channels at 75 watts
 - IS-AMP1650: 16 channels at 50 watts
- Web GUI interface
- 12 volt trigger in / out
- RS232 control
- Third party control
- Full matrix capability
- Additional assignable outputs
 - IS-AMP8100: 4 additional outputs
 - IS-AMP1275: 8 additional outputs
 - IS-AMP1650: 8 additional outputs



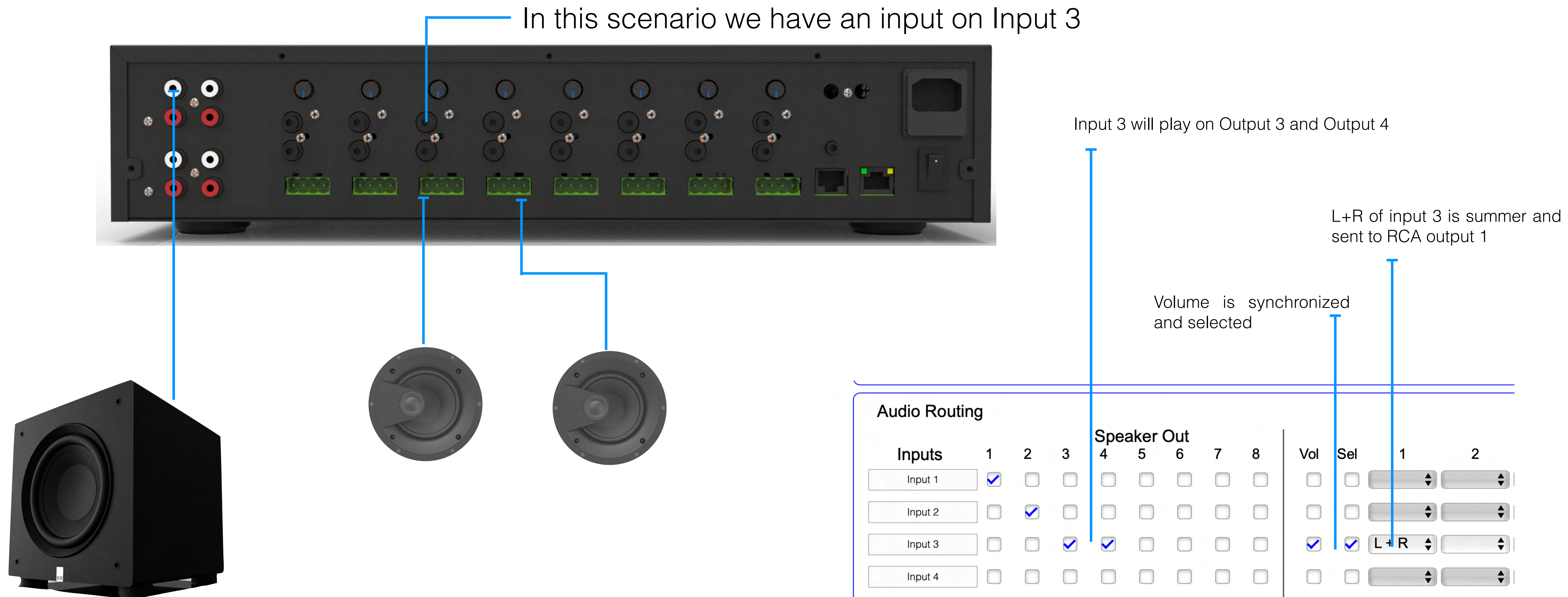
IS-AMP8100, 8 Channel Amplifier

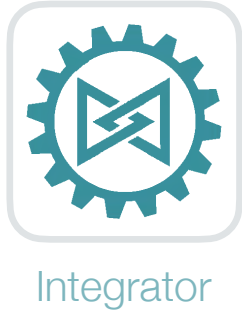


IS-AMP1275, 12 Channel Amplifier

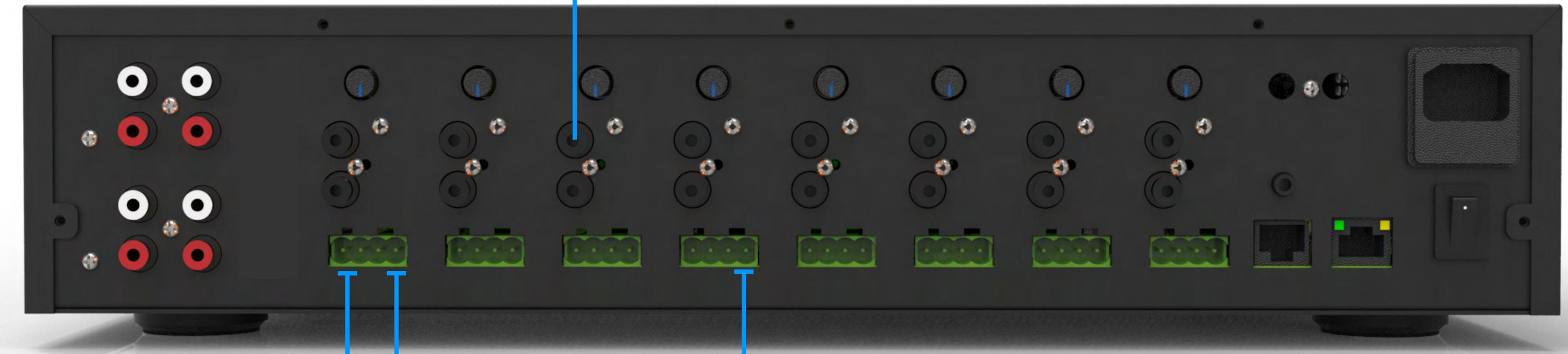


IS-AMP1650, 16 Channel Amplifier





In this scenario we have an input on Input 3



Inputs and Outputs			
Input Name	Gain [dB]	Output Name	Maximum Volume [%]
Input 1	-12 0 0	Output 1	0 100 100
Input 2	-12 0 0	Output 2	0 100 100
Input 3	-12 0 0	Lobby	0 100 100
Input 4	-12 0 0	Output 4	0 100 100
Input 5	-12 0 0	Output 5	0 100 100
Input 6	-12 0 0	Output 6	0 100 100
Input 7	-12 0 0	Output 7	0 100 100
Input 8	-12 0 0	Output 8	0 100 100

Input 3 will play on Output 1 and Output 4. Output 4 is bridged and used for passive subwoofer

Outputs EQ			
Output EQ Settings			
Output 4	Elac Speaker	20 45 20000	20 150 20000
	Custom	High Pass, Hz	Low Pass, Hz
-6 0 6	Bass, dB	-6 0 6	-100 0 100
	Treble, dB		Balance
PEQ Settings			
PEQ1	20 63 20000	.3 0.7 10	-6 4 6
	Frequency, Hz	Q	Gain, dB
PEQ2	20 80 20000	.3 0.34 10	-6 3 6
	Frequency, Hz	Q	Gain, dB
PEQ3	20 20 20000	.3 0.667 10	-6 0 6
	Frequency, Hz	Q	Gain, dB
PEQ4	20 20 20000	.3 0.667 10	-6 0 6
	Frequency, Hz	Q	Gain, dB

At Eq and PEQ to output 4. In this case 45 to 150 Hz with some PEQ at 63 and 80 hz.

Audio Routing									
Inputs	1	2	3	4	5	6	7	8	
Input 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Input 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Input 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Input 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

No selection made

Vol	Sel	1	2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>