



PA-SERIES
POWER AMPLIFIER

Intelligent
amplification.
Plain design.
High tech and
made in Munich.



Optimum amplification for perfect acoustics



Next Generation

PA-SERIES POWER AMPLIFIER

We have further developed our proven multi-channel power amplifier series to bring you the new PA SERIES.

This all-round portfolio of sophisticated two- to eight-channel class-D power amplifiers comes with or without DSP. The amplifiers are available with output ratings from 100 to 800 wattss per channel and with three different input modules. Customers can choose between symmetrical inputs, cinch inputs and a Dante interface.

The circuits are designed to deliver outstanding sound quality and a long operating life with minimum energy consumption and low levels of heat build-up.

In automatic on/off mode, amplifier channels that are not currently being used are switched to an energy-saving sleep mode.

Our new processor-controlled class-D power amplifier modules and generously proportioned, high-capacity power supplies ensure outstanding efficiency levels and enormous power reserves.

Nominal output power is available at load impedances from 2 to 8 ohms.

The devices are manufactured in Munich with a modular design allowing for the best level of maintenance and service.





800 Watts Models

Sophisticated, class-D multi-channel power amplifier with an integrated 8x8 DSP matrix and 1 x 1600 Watts (Bridge Mode) upto 8 x 800 Watts oder 4 x 1600 Watts (Bridge Mode).

The amplifiers can be programed via Ethernet using our newly developed, browser-based **LB AUDIO CONTROL App**.

All models have symmetrical inputs, Cinch or DANTE Interface.



LB AUDIO CONTROL

Browser-based App
for our new DSP's
Interface: Ethernet
Download:
www.lb-lautsprecher.de



Front (Amplifiers without DSP)

On the front panel of our power amplifiers without DSP, LEDs indicate the operating status of the amplifier channels. In addition, the volume of the channels can be adjusted separately. In Bridge mode, only the left controller of the channel pair is active.

1 Power switch

The amplifier switches on with a delay of approx. 3 seconds.

2 LED STANDBY / ON

The LED lights up red in STANDBY and green when the amplifier is switched on.

3 GAIN control per channel

4 LED displays

SLEEP – the corresponding power amplifier channel is in power-saving mode and is automatically reactivated when there is a signal.

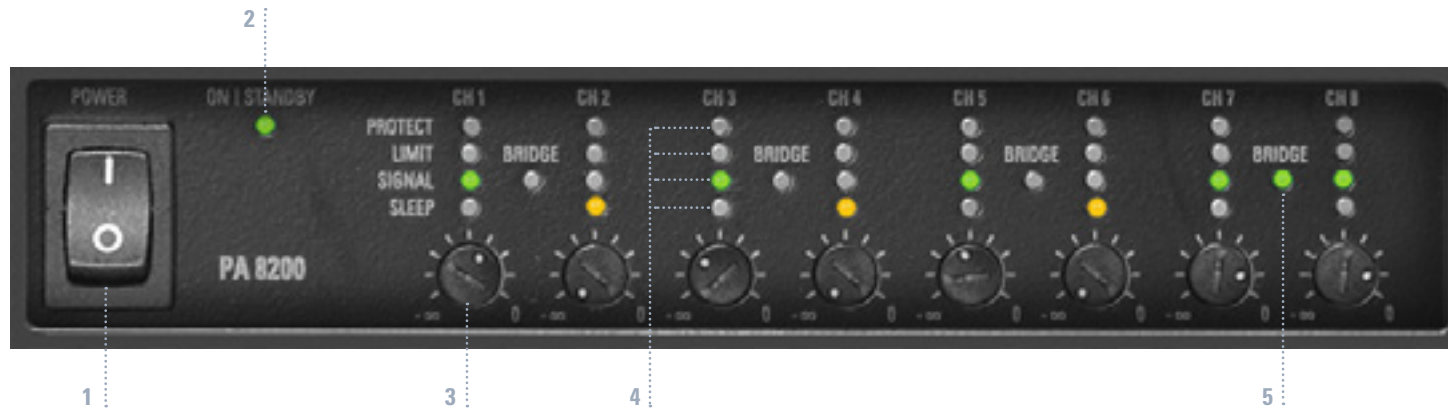
SIGNAL – there is a signal at the output of the corresponding power amplifier channel.

LIMIT – the corresponding output stage channel limits (Peak Voltage, Peak Current, Peak Power or Average Power).

PROTECT – the corresponding output stage channel switches off: short circuit at the output, overtemperature or defect. A flashing LED indicates that the power of the channel is reduced due to excessive operating temperature.

5 LED BRIDGE

Lights up when Bridge Mode is activated for the corresponding channel pair.





Front (DSC)

The front panel of our DSP power amplifiers shows the device name, the preset name as well as the IP address and MAC address on the display. LEDs provide information about the operating status of the individual amplifier channels.

- 1 Power switch**
The amplifier switches on with a delay of approx. 3 seconds.
- 2 LED STANDBY/ON**
The LED lights up red in STANDBY and green when the amplifier is switched on.
- 3 LED DSP SIGNAL /LIMIT / CLIP**
Shows the operating status of the DSP:
Green when there is a signal.
Yellow when one of the set limiters is active.
Red if the DSP is overloaded on the input or output side.
- 4 USB port**
Interface for firmware update.
- 5 Display**
The display shows the name of the amplifier, which can be changed in the LB AUDIO CONTROL Software. The currently selected preset is displayed in the bottom line.
- 6 PRESET SELECT**
The presets stored in the device can be selected with the encoder. In addition, IP address and MAC address can be displayed.
- 7 LED displays**
SLEEP – the corresponding power amplifier channel is in power-saving mode and is automatically reactivated when there is a signal.
SIGNAL – there is a signal at the output of the corresponding power amplifier channel.
LIMIT – the corresponding output stage channel limits.
(Peak Voltage, Peak Current, Peak Power or Average Power)
PROTECT – the corresponding output stage channel switches off: short circuit at the output, overtemperature or defect. A flashing LED indicates that the power of the channel is reduced due to excessive operating temperature.





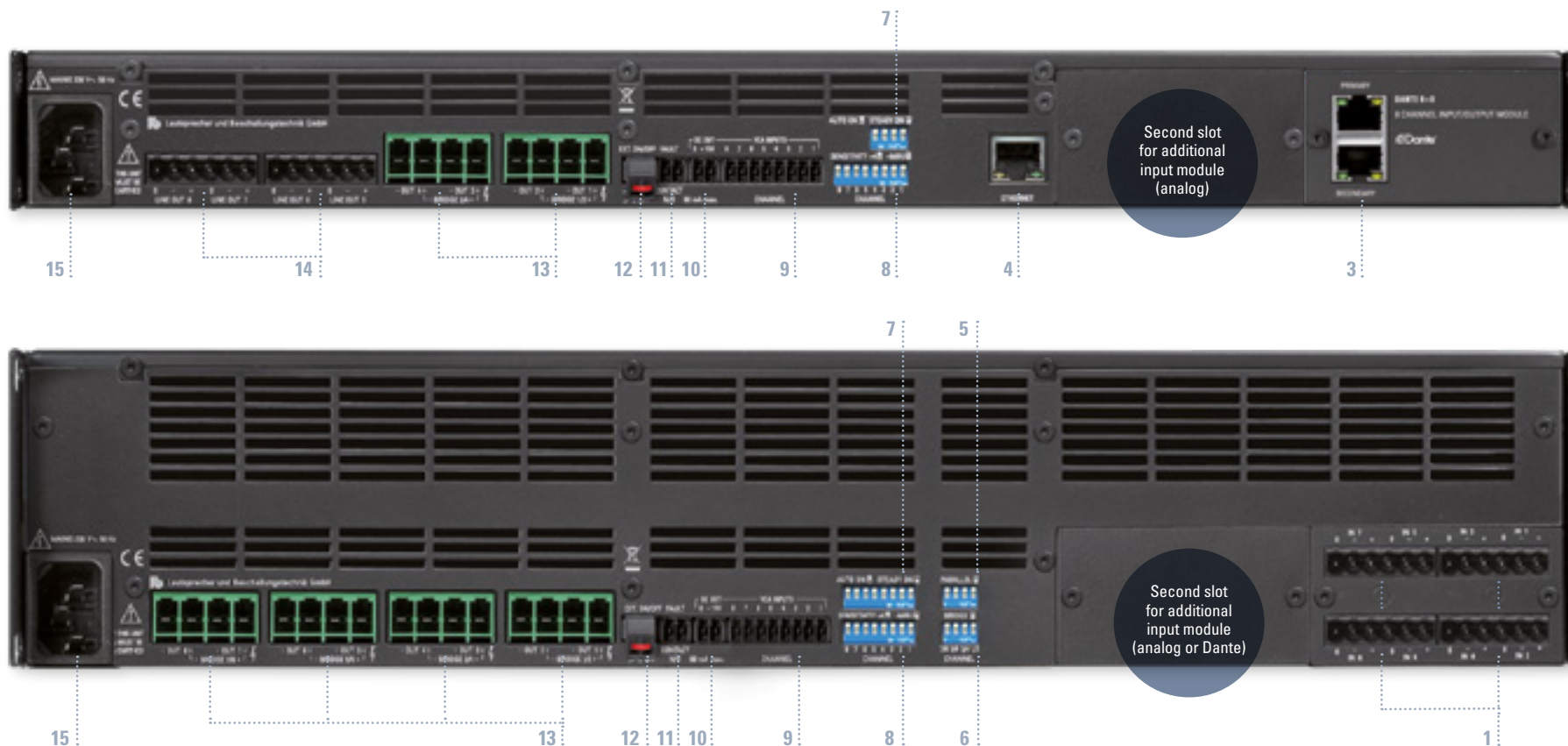
Smart Back Sides

The power amplifiers offer a wide range of settings and are equipped with connectors that enable remote control. The DIP switches can be used to switch the input sensitivity of each channel from +4 dB to -6 dB and to deactivate automatic on/off. VCA inputs for each channel enable the volume to be controlled externally using our WP-V and RP-V volume controllers or the DV module via Up/Down contacts. The amplifiers can be switched on and off via a contact, and power amplifier faults are signaled via the isolated fault contact.

- 1 **8xIN-SYM** Input module 8 × line IN symmetrical
- 2 **8xIN-CINCH** Input module 8 × line IN cinch asymmetrical
- 3 **DANTE 8x8** Dante interface, 2 × RJ45 Ethernet
- 4 **ETHERNET** RJ 45 network connection DSP
- 5 **PARALLEL** DIP switch per channel pair

- 6 **BRIDGE** DIP switch per channel pair
- 7 **AUTO ON/STEADY ON** DIP switch per channel
- 8 **SENSITIVITY** DIP switch+4/-6 dB per channel
- 9 **VCA-INPUTS** (Voltage Controlled Amplifier) per channel
- 10 **DC OUT 15 V** power supply for WP-V/RP-V, 60 mA max.

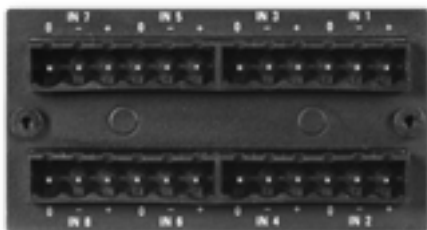
- 11 **FAULT CONTACT N/O**
- 12 **EXT. ON/OFF N/C** (short circuit plug)
- 13 Speaker outputs
- 14 Line outputs
- 15 IEC mains connection (power cable enclosed)





Input Modules

All power amplifier models are available in three versions with different input modules: symmetrical line inputs, asymmetrical cinch inputs or a Dante interface. If necessary, a second input module can be added to the amplifiers to combine different types of signal sources. Some input channels, for example, can be fed by analog sources while others are fed via Dante.



SYMMETRICAL INPUT MODULES WITH 2-8 CHANNELS

2/4/6/8-channel input modules for the PA SERIES with symmetrical line inputs. The inputs are equipped with pluggable screw-type terminals. The modules feature GROUND LIFT DIP switches for each channel pair, enabling operation with grounded signal sources (internal).



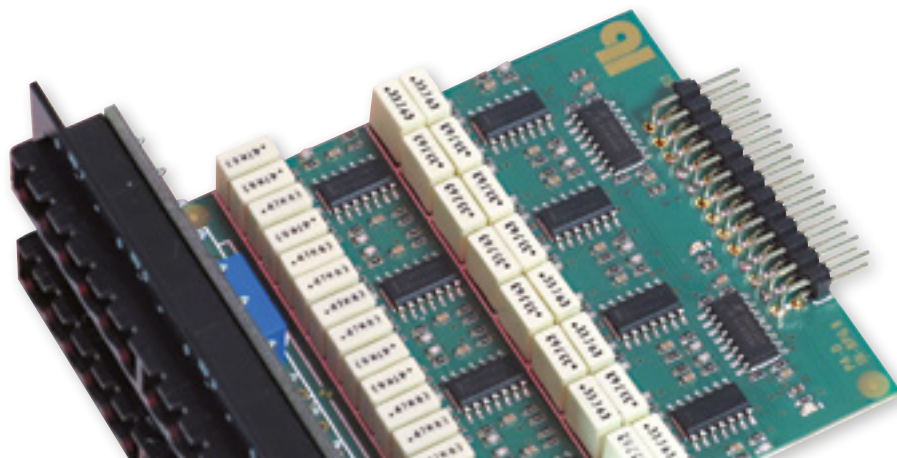
CINCH INPUT-MODULES WITH 2-8 CHANNELS

2/4/6/8-channel input module for the PA SERIES with asymmetrical cinch inputs. The modules feature GROUND LIFT DIP switches for each channel pair, enabling operation with grounded signal sources (internal).



8-CHANNEL DANTE INTERFACE FOR THE PA SERIES

The Dante interface features two RJ45 terminals for audio over Ethernet (primary/secondary). If the primary network connection fails, the module automatically switches to the secondary connection.





LB AUDIO CONTROL Software

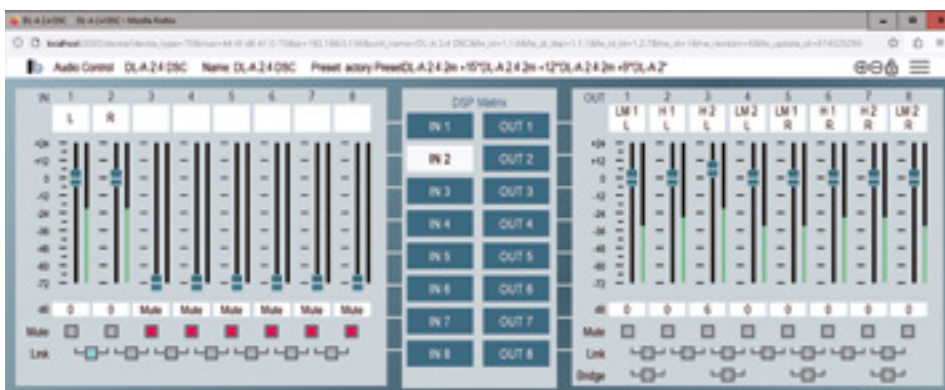
Our newly developed, browser-based **LB AUDIO CONTROL App** is used to program and control LB DSP devices (amplifiers, controllers, active line arrays, active display speakers).



AUDIO CONTROL

LB AUDIO CONTROL

Browser-based Software
for our new DSPs.
Interface: Ethernet
Download:
www.lb-lautsprecher.de





Models

PA Series	Inputs	Outputs	Cabinet
PA 2100	2 × Line IN sym.	2 × 100 watts	1 U
PA 2100 CINCH	2 × Line IN Cinch		
PA 2100 DANTE	Ethernet		
PA 4100	4 × Line IN sym.	4 × 100 watts	1 U
PA 4100 CINCH	4 × Line IN Cinch		
PA 4100 DANTE	Ethernet		
PA 6100	6 × Line IN sym.	6 × 100 watts	1 U
PA 6100 CINCH	6 × Line IN Cinch		
PA 6100 DANTE	Ethernet		
PA 8100	8 × Line IN sym.	8 × 100 watts	1 U
PA 8100 CINCH	8 × Line IN Cinch		
PA 8100 DANTE	Ethernet		
PA 2200	2 × Line IN sym.	2 × 200 watts	1 U
PA 2200 CINCH	2 × Line IN Cinch		
PA 2200 DANTE	Ethernet		
PA 4200	4 × Line IN sym.	4 × 200 watts	1 U
PA 4200 CINCH	4 × Line IN Cinch		
PA 4200 DANTE	Ethernet		
PA 6200	6 × Line IN sym.	6 × 200 watts	1 U
PA 6200 CINCH	6 × Line IN Cinch		
PA 6200 DANTE	Ethernet		
PA 8200	8 × Line IN sym.	8 × 200 watts	1 U
PA 8200 CINCH	8 × Line IN Cinch		
PA 8200 DANTE	Ethernet		
PA 2400	2 × Line IN sym.	2 × 400 watts	1 U
PA 2400 CINCH	2 × Line IN Cinch		
PA 2400 DANTE	Ethernet		
PA 4400	4 × Line IN sym.	4 × 400 watts	1 U
PA 4400 CINCH	4 × Line IN Cinch		
PA 4400 DANTE	Ethernet		
PA 6400	6 × Line IN sym.	6 × 400 watts	1 U
PA 6400 CINCH	6 × Line IN Cinch		
PA 6400 DANTE	Ethernet		
PA 8400	8 × Line IN sym.	8 × 400 watts	1 U
PA 8400 CINCH	8 × Line IN Cinch		
PA 8400 DANTE	Ethernet		

PA-DSC Series	Inputs	Outputs	Cabinet
PA 2100 DSC	8 × Line IN sym.	2 × 100 watts + 6 × Line OUT	1 U
PA 2100 DSC CINCH	8 × Line Cinch		
PA 2100 DSC DANTE	Ethernet		
PA 4100 DSC	8 × Line IN sym.	4 × 100 watts + 6 × Line OUT	1 U
PA 4100 DSC CINCH	8 × Line Cinch		
PA 4100 DSC DANTE	Ethernet		
PA 6100 DSC	8 × Line IN sym.	6 × 100 watts + 6 × Line OUT	1 U
PA 6100 DSC CINCH	8 × Line Cinch		
PA 6100 DSC DANTE	Ethernet		
PA 8100 DSC	8 × Line IN sym.	8 × 100 watts	1 U
PA 8100 DSC CINCH	8 × Line Cinch		
PA 8100 DSC DANTE	Ethernet		
PA 2200 DSC	8 × Line IN sym.	2 × 200 watts + 6 × Line OUT	1 U
PA 2200 DSC CINCH	8 × Line Cinch		
PA 2200 DSC DANTE	Ethernet		
PA 4200 DSC	8 × Line IN sym.	4 × 200 watts + 4 × Line OUT	1 U
PA 4200 DSC CINCH	8 × Line Cinch		
PA 4200 DSC DANTE	Ethernet		
PA 6200 DSC	8 × Line IN sym.	6 × 200 watts + 2 × Line OUT	1 U
PA 6200 DSC CINCH	8 × Line Cinch		
PA 6200 DSC DANTE	Ethernet		
PA 8200 DSC	8 × Line IN sym.	8 × 200 watts	1 U
PA 8200 DSC CINCH	8 × Line Cinch		
PA 8200 DSC DANTE	Ethernet		
PA 2400 DSC	8 × Line IN sym.	2 × 400 watts + 6 × Line OUT	1 U
PA 2400 DSC CINCH	8 × Line Cinch		
PA 2400 DSC DANTE	Ethernet		
PA 4400 DSC	8 × Line IN sym.	4 × 400 watts + 4 × Line OUT	1 U
PA 4400 DSC CINCH	8 × Line Cinch		
PA 4400 DSC DANTE	Ethernet		
PA 6400 DSC	8 × Line IN sym.	6 × 400 watts + 2 × Line OUT	2 U
PA 6400 DSC CINCH	8 × Line Cinch		
PA 6400 DSC DANTE	Ethernet		
PA 8400 DSC	8 × Line IN sym.	8 × 400 watts	2 U
PA 8400 DSC CINCH	8 × Line Cinch		
PA 8400 DSC DANTE	Ethernet		



Models and Input Modules

PA-Series	Inputs	Outputs	Cabinet
PA 2800	2 × Line In sym.	2 × 800 watts	1 U
PA 2800 CINCH	2 × Line In Cinch		
PA 2800 DANTE	Ethernet		
PA 4800	4 × Line In sym.	4 × 800 watts	2 U
PA 4800 CINCH	4 × Line In Cinch		
PA 4800 DANTE	Ethernet		
PA 6800	6 × Line In sym.	6 × 800 watts	2 U
PA 6800 CINCH	6 × Line In Cinch		
PA 6800 DANTE	Ethernet		
PA 8800	8 × Line In sym.	8 × 800 watts	2 U
PA 8800 CINCH	8 × Line In Cinch		
PA 8800 DANTE	Ethernet		

PA-DSC-Series	Inputs	Outputs	Cabinet
PA 2800 DSC	8 × Line In sym.	2 × 800 watts + 6 × Line Out	1 U
PA 2800 DSC CINCH	8 × Line Cinch		
PA 2800 DSC DANTE	Ethernet		
PA 4800 DSC	8 × Line In sym.	4 × 800 watts + 6 × Line Out	2 U
PA 4800 DSC CINCH	8 × Line Cinch		
PA 4800 DSC DANTE	Ethernet		
PA 6800 DSC	8 × Line In sym.	6 × 800 wattst + 6 × Line Out	2 U
PA 6800 DSC CINCH	8 × Line Cinch		
PA 6800 DSC DANTE	Ethernet		
PA 8800 DSC	8 × Line In sym.	8 × 800 watts	2 U
PA 8800 DSC CINCH	8 × Line Cinch		
PA 8800 DSC DANTE	Ethernet		

Input Modules	Inputs
2×IN-SYM	2 × Line IN sym.
4×IN-SYM	4 × Line IN sym.
6×IN-SYM	6 × Line IN sym.
8×IN-SYM	8 × Line IN sym.
2×IN-CINCH	2 × Line IN asym.
4×IN-CINCH	4 × Line IN asym.
6×IN-CINCH	6 × Line IN asym.
8×IN-CINCH	8 × Line IN asym.
DANTE 8×8	Ethernet



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