

MP-A2B

Mini Digital Amplifier



Compact Class-D digital amplifier

The MP-A2B combines two stereo line inputs and one balanced microphone input with bridge, dual-mono, microphone mixer and EQ control functions.

Default Output

2 × 20 W @ 4 Ω

Bridge Output

1 × 40 W @ 8 Ω

Applications

Classrooms, small meeting rooms, lecture halls, bars and pubs

KEY FEATURES

- 2 × 20 W @ 4 Ω default amplifier output.
- Bridge connection for 1 × 40 W @ 8 Ω mono output.
- Two switchable stereo audio inputs via front buttons, IR remote or RS232.
- Volume, bass and treble control; separate MIC and LINE volume control.
- Balanced/unbalanced MIC input with external-noise suppression.
- 48 V phantom power support for condenser microphones.
- 3.5 mm line audio output with volume control.
- Dual-mono output and microphone mixer functionality.
- Automatic noise gate / ducking process.
- Ultra-low inrush current; fanless convection cooling.

AUDIO INPUT / OUTPUT

Audio Inputs	2 stereo audio inputs + 1 microphone input
Input Connectors	2 × RCA; 1 × 3.5 mm jack; 1 × 3-pin pluggable terminal block (3.81 mm)
Input Impedance	>10 kΩ
Audio Outputs	1 amplifier output + 1 stereo/line output
Output Connectors	1 × 3.5 mm jack; 1 × 4-pin pluggable terminal block (5.08 mm)
Output Impedance	50 Ω / stereo; 4–8 Ω / amplifier
Power Output	2 × 20 W @ 4 Ω; bridge: 1 × 40 W @ 8 Ω

AUDIO PERFORMANCE

Frequency Response	20 Hz – 20 kHz
SNR	80 dB at maximum output
Stereo Channel Separation	>75 dB @ 20 Hz – 20 kHz
CMRR	>70 dB @ 20 Hz – 20 kHz
Bandwidth	20 Hz – 25 kHz
THD + Noise	1% @ 1 kHz; 0.3% @ 20 kHz at nominal level
Voltage Gain	32 dB

CONTROL

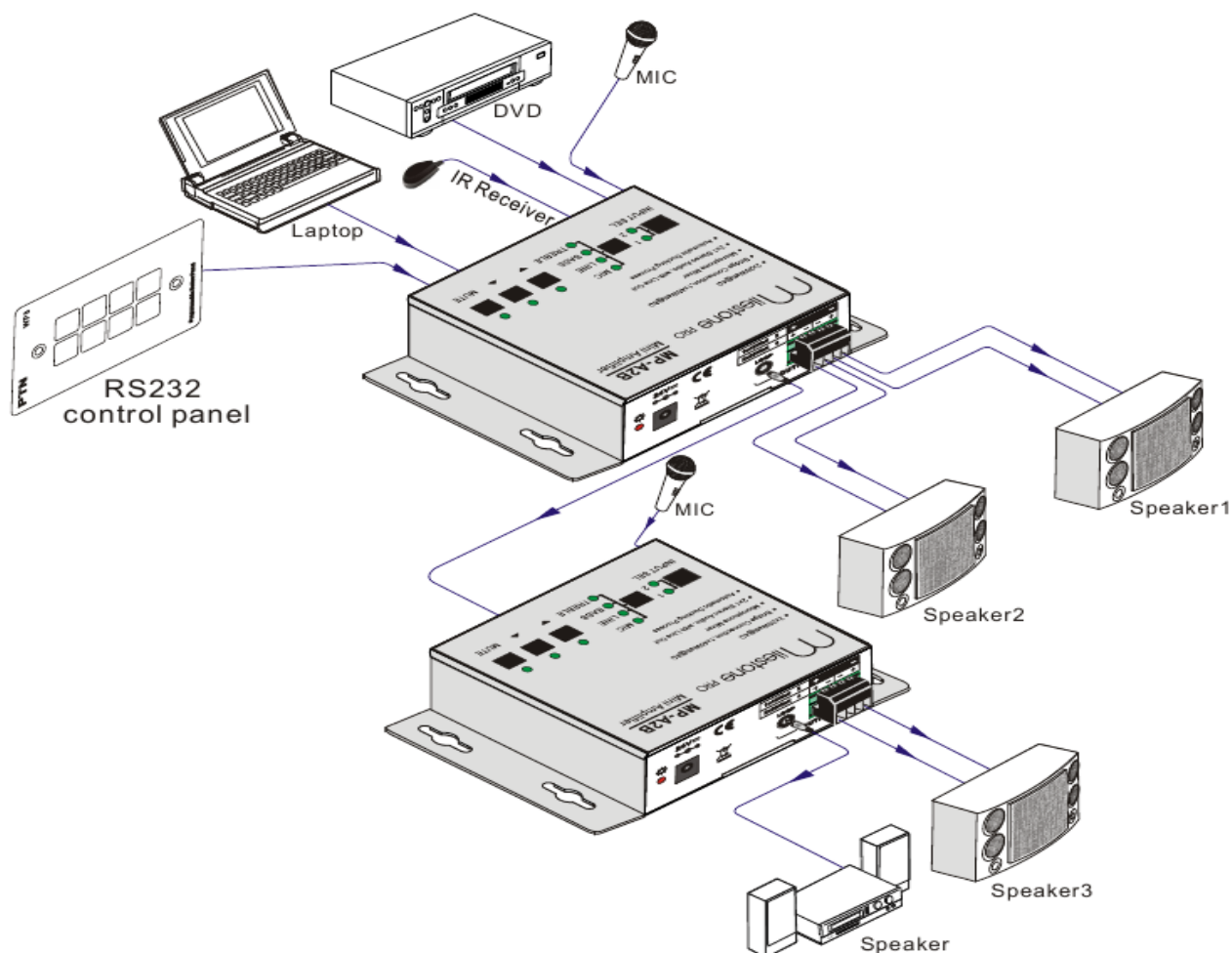
RS232 Control	3-hole Phoenix connector; 9600 baud, 8 data bits, 1 stop bit, no parity
Panel Control	Button control

IR Remote	Optional IR remote
-----------	--------------------

MP-A2B — SYSTEM & INSTALLATION

Typical system connection and mechanical reference from the supplied user manual.

4. System Diagram



Typical System Diagram

MICROPHONE & SIGNAL FUNCTIONS

MIC Modes	48 V phantom power / MIC / LINE
Microphone Support	Condenser microphone, dynamic microphone and wireless microphone
MIC Mixer	Microphone can be mixed to line audio output and controlled separately
Dual-Mono	Sums left and right channels to provide the same mono audio on both outputs
Noise Gate	Automatically mutes output when no input is detected

PACKAGE CONTENTS

1 × MP-A2B; 2 × pluggable terminal blocks; 1 × RS232 cable; 1 × power adapter; 1 × power cord; 4 × plastic cushions; 1 × user manual. IR remote, battery and IR receiver are optional/charged separately.

MECHANICAL / POWER

Power Supply	24 V DC (shown on product panel)
Cooling	Convection cooled; no fan required
Case	Antistatic case design
Panel Drawing	Manual shows overall front dimensions of 123 mm × 87 mm, with 99 mm body width; additional mounting/profile dimensions are shown in the panel drawing.

Source: MP-A2B Mini Digital Amplifier User Manual, Version MP-A2B_2016V1.0. Product image and system diagram are reproduced from the supplied manual. Specifications are based on the manual's Specification and Panel Drawing sections.