

Mini 2-Input Class D Audio Amplifier with Mic Mixer

Quarter-rack stereo amplifier with 48V phantom power, ducking, EQ control & RS232

MPN: AP2DBL



The KanexPro AP2DBL eliminates the need for a separate mic preamp and mixer in space-constrained AV installations. This quarter-rack-width Class D amplifier delivers 2×20W at 4Ω with a built-in microphone mixer featuring 48V phantom power, automatic ducking, and independent volume control — combining amplification, mixing, and EQ in a single compact chassis.

Two switchable stereo inputs (RCA and 3.5mm) accommodate media players, laptops, and wireless mic receivers, while the balanced MIC input supports condenser, dynamic, and line-level sources. RS232 control with a documented command set enables integration with Crestron, Extron, and other room controllers. Bridge mode doubles output to 1×40W at 8Ω for single-speaker installations, and a stereo loop output enables multi-zone daisy-chaining.

1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators designing small-room audio for corporate, education, and worship environments

THE CHALLENGE

Most compact amplifiers lack mic mixing, phantom power, and RS232 — forcing integrators to add a separate mic preamp and control interface, increasing cost and rack space

THE KANEXPRO ADVANTAGE

AP2DBL combines amplification, mic mixing with 48V phantom, ducking, 3-band EQ, and RS232 in a quarter-rack chassis under \$250 — the most complete feature set in the smallest pro AV amplifier on the market

2 PRODUCT POSITIONING

AP2DBL is the ultra-compact Class D mixer/amplifier for AV integrators who need reliable mic-mixing and dual-input amplification in tight spaces without the cost and complexity of a full mixer/amp rack.

3 APPLICATIONS

House of Worship

Single podium mic (48V phantom condenser) mixed with background music from a media player. Bridge mode delivers 40W mono to a ceiling speaker or column array in small chapels.

Corporate Huddle Room

3.5mm input from a laptop plus RCA from a ceiling mic processor, amplified directly to in-ceiling speakers — eliminates the need for a separate mixer.

Classroom / Lecture Hall

Teacher mic with ducking priority over media playback. RS232 integration lets a room controller mute/unmute and switch sources without touching the unit.

Retail / Hospitality BGM

Background music on Input 1, paging mic on MIC input with automatic ducking. Loop output daisy-chains to a second AP2DBL in an adjacent zone.

Museum / Gallery Exhibit

Ultra-low power draw (3.6W) and convection cooling mean silent operation in exhibit furniture. Compact quarter-rack form fits behind display panels.

Event / Portable PA

Lightweight (0.67 lbs), universal AC power, and RS232/IR remote make it ideal for temporary setups in hotel breakout rooms or trade show booths.

4 WHO THIS IS FOR

Corporate AV

Education

House of Worship

Hospitality

Retail

Museums

Ideal User	AV design engineer, systems integrator, IT/facilities manager
Project Types	Corporate AV (huddle rooms), education (classrooms), worship (chapels), hospitality (meeting rooms), retail (BGM + paging)
Typical Buyer	AV designer/consultant during system design; IT director for smaller organizations

5 KANEXPRO PRODUCT COMPARISON

KanexPro offers three audio amplifier tiers — choose the right fit for each project:

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
AP2DBL	Small rooms, tight budgets	2×20W stereo @ 4Ω, mic mixer, 48V	Smallest form factor, lowest cost, RS232 + ducking
AP3DBL	Distributed 70V/100V systems	40W @ 70V/100V, 3 inputs (adds TOSLINK)	Adds digital input, 70V/100V output, IR remote included
AUD-DTE-2CHAMP	Dante-networked installs	150W Class D, DSP, Dante	Network audio, high power, DSP — no mic mixer

AP2DBL — Best value for integrator-controlled small rooms needing mic mixing under \$250

6 FREQUENTLY ASKED QUESTIONS

Q: How does AP2DBL compare to the OSD XMP60?

AP2DBL adds RS232 control, 48V phantom power for condenser mics, automatic ducking, and balanced MIC input — features the XMP60 lacks. For any integrator-controlled room, AP2DBL is the correct specification.

Q: Can it drive 70V/100V distributed speakers?

No — AP2DBL outputs 2×20W at 4Ω low-impedance only. For 70V/100V, specify the AP3DBL (40W, 70V/100V).

Q: What is the difference between AP2DBL and AP3DBL?

AP2DBL = 2 inputs, 2×20W stereo at 4Ω, lower cost, smallest form factor. AP3DBL = 3 inputs (adds TOSLINK digital), 40W at 70V/100V, IR remote included, RS232 daisy-chain.

Q: Does it support condenser microphones?

Yes — the MIC input provides switchable 48V phantom power for condenser mics, plus MIC and LINE modes for dynamic mics and wireless receivers.

Q: Can I control it from Crestron/Extron?

Yes — full RS232 protocol (9600/8/N/1) with documented command set for input switching, volume/bass/treble preset, mute, and status query. TCP/IP optional via TCPRS2 adapter.