

AMP-X50MP

X Series Media Presentation Amplifier



- *Compact and versatile power amplifier*
- *2 x 25 W per channel (1 x 50 W) into 4 or 8 Ohm speakers*
- *1 x 50 W output for Hi-Z (70V and 100V) speakers*
- *Balanced, unbalanced, and stereo 3.5 mm inputs with auto summing*
- *Stereo or mono-summed operation*
- *Remote power control*
- *Energy saving design reduces power consumption when idle*
- *Highly sensitive audio-sensing circuitry with high-speed wake time*
- *Convection cooled for noiseless operation*
- *Volume, bass, and treble adjustments*
- *Knob cover protects accidental changes to the device settings*
- *Captive speaker and power connectors for secure and robust connectivity*
- *Electronic short-circuit and overload protection*
- *Factory installed surface mount flange brackets are removable and reversible*
- *Quarter-Rack width for rack mounting with optional kit*
- *60 W DC power supply with locking barrel connector and DC cable included*

The Crestron® AMP-X50MP is a low-cost audio amplifier solution that is suitable for a variety of applications. It features a compact, surface-mountable design that installs virtually anywhere without requiring an equipment rack.

LoZ (4/8 Ω) and Hi-Z (70V or 100V) Output

High-efficiency Class D circuitry delivers 25 W per channel to drive one pair of 4 or 8 Ohm speakers, making it ideal to support stereo speakers at the front of a room or mono speakers in the ceiling. The amplifier can also be used with Hi-Z (70/100V) speakers, delivering 50 W.

Convection Cooling

The efficient design provides cool running operation to ensure long term reliability. The AMP-X50MP is high-density stackable with other Crestron X Series and Modular Amplifiers, allowing multiple units to be installed vertically in an equipment rack without needing extra ventilation space.

Easy Installation

Installation and setup of the AMP-X50MP is simple. Detachable connectors facilitate the termination of wiring. Balanced and unbalanced inputs can connect directly to the line output of a video projector or display, audio processor, mixer, or AV switcher. Independent controls for volume, bass, and treble allow a custom sound in any location. A knob cover is included with the product to protect against accidental changes to the front panel settings.

Fully Protected

The AMP-X50MP features protection against overheating, shorted or overloaded speaker lines, excessive input signals, and other faults. In the case of a shorted speaker line, both outputs mute automatically until the fault condition is resolved.

Energy Efficient

In addition to its high efficiency operation, the AMP-X50MP powers down automatically when no input signal is detected for more than 25 minutes, reducing overall power consumption and heat as part of an energy efficient system design. The amplifier quickly powers back on the instant an input signal is detected. A remote input can connect to a contact closure to place the amplifier in standby mode.

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Specifications¹

Audio

Input Signal Types Balanced or unbalanced analog line-level

Output Power

Mode	1 Channel Driven	2 Channels Driven
LoZ	8 ohm: 25 W 4 ohm: 50 W	8 ohm: 25 W 4 ohm: 25 W
Hi-Z 70V	50 W	N/A
Hi-Z 100V	50 W	N/A

Frequency Response LoZ (4-8 Ohms): 20 Hz to 20kHz
+/-0.5 dB at 1 W;
Hi-Z (70V/100V): 90 Hz to 20kHz
+/-3 dB at 1 W;
HPF @ 80 Hz (+/-10 Hz),
-12 dB/Octave

THD+N < 0.1 % at 1kHz @ -3 dB full rated output power

S/N Ratio > 90 dBA, 20 Hz to 20kHz, balanced, Hi-Z

Crosstalk -75 dB at 1 kHz

Input Sensitivity 1.23Vrms, +4 dBu balanced;
0.316Vrms, -10 dBV unbalanced;
For 25 W @ 8 Ohms
50 W @ 70V/100V

Gain 21.5 dB @ 8 Ohms, Balanced

Wake Signal Threshold -57 dBu (1 mV) max

Protection Clip limiter, over current, under voltage, over temperature, DC offset, extreme high frequency

Connectors

Speaker Output (1) 6-pin, 5.08 mm pitch, 12A plug with screw locking retainers;
Power amplifier outputs;
Wire Size: Terminals accept up to 12AWG (3.31 mm²)

ALS OUT (1) 3.5 mm connector, female;
Unbalanced line level audio outputs;
Maximum Output Level: 2.24Vrms, +7 dBV (+9.2 dBu);
Fixed audio output for assisted listening devices duplicates the summed audio input

AUDIO IN 1-2 (unbalanced)

(2) RCA connectors, female;
Unbalanced line level audio inputs;
Maximum Input Level: 2.24Vrms, +7 dBV (+9.2 dBu)

AUDIO IN 1-2 (unbalanced)

(1) 3.5 mm connector, female;
Unbalanced line level audio inputs;
Maximum Input Level: 2.24Vrms, +7 dBV (+9.2 dBu)

AUDIO IN 1-2 (balanced)

(1) 5 pin 3.5 mm detachable terminal block;
Balanced line level audio inputs;
Maximum Input Level: 7.75Vrms, +20 dBu;
Input Impedance: 20k Ohms

REMOTE

(1) 2 pin 3.5 mm detachable terminal block;
Connect to contact closure to place amplifier in standby mode.

G

(1) M3 with captivated internal tooth lock washer screw;
Chassis ground lug

24V, 2.5A

(1) External 60 W desktop power supply (24VDC/2.5A);
Mates with locking barrel connector DC cord;
Power supply included.

Controls & Indicators

PWR

(1) Bi-color white/red LED;
White indicates operating power supplied;
Red indicates standby mode.

FAULT

(1) Red LED;
Indicates an over temperature or over current fault

SIGNAL

(1) Bi-color white/red LED;
White indicates input signal presence;
Red indicates input signal clipping/limiting

Hi-Z

(1) White LED;
Indicates speaker output is in Hi-Z (70V/100V) mode

MONO/STEREO

(1) Slide switch to select STEREO, MONO;
STEREO preserves channels;
MONO creates a mono downmix of the input signals

Hi-Z/LoZ

(1) Slide switch to select LoZ (low impedance 4-8 ohms) or Hi-Z (high impedance 70V/100V)

VOLUME, BASS, TREBLE

(3) Rotary knobs adjust volume, bass (+/- 6 dB), and treble (+/- 6 dB) levels

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Power

Main Power	24VDC, 2.5A; 100-240VAC, 50/60 Hz, 1.5A power supply included
Power Consumption	14.6 W, 2 channels driven at 1/8th output power (4 ohms); 6 W, idle (Hi-Z mode)

Environmental

Temperature	41° to 104°F (5° to 40°C)
Humidity	10% to 90% RH (non-condensing)

Construction

Chassis	Metal, convection cooled (fanless)
Front Panel	Metal, black finish with polycarbonate label overlay
Mounting	Freestanding, surface mount, or 1/4 width 1 RU 19 in. rack mountable; Gangable with other Crestron modular and X series products (adhesive feet and surface mounting brackets included); Ganging kit and rack mounting kit optional
Knob Cover	Polycarbonate transparent material

Dimensions

Height	1.74 in. (44 mm) without feet; 1.85 in. (47 mm) with surface kit
Width	4.33 in. (110 mm); 5.58 in. (142 mm) with surface kit
Depth	6.99 in. (178 mm) without knob cover; 7.57 in. (192 mm) with knob cover

Weight

3.24 lb (1.5kg)

Compliance

ErP (1275/2008/EC), UL 62368, FCC Class B commercial and residential use

Model

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Available Accessories

For a list of available accessories, visit the AMP-X50MP product page.

Note:
1. All nominal specs, +/- 10%

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754. This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details. The specific patents that cover Crestron products are listed online at patents.crestron.com. Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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