

AMP-X1000

X-Series Amplifier, 1000 W



- Compact 1 RU power amplifier
- Quiet, fanless convection-cooled design
- Up to 1000 W of output power available across 4 output channels
- Configurable for either Lo-Z (4 or 8 Ω) or Hi-Z (70V or 100V) operation
- BUS line input and output for sending the same signal to multiple amps
- Low noise, low distortion, high headroom
- Comprehensive fault and speaker protection
- Captive speaker connectors for secure and robust connectivity
- Balanced and unbalanced inputs
- Standby feature instantly turns on amplifier when input sensing circuitry detects an audio signal
- Always On feature bypasses standby with minimal power consumption
- Internal universal 100-240V power supply

The AMP-X1000 is a high performance, compact, energy efficient, professional grade amplifier. Supporting Lo-Z and Hi-Z operation, this multichannel amplifier is suitable for both residential and commercial configurations.

Lo-Z (4/8 Ω) and Hi-Z (70V or 100V) Operation

The AMP-X1000 is a 4-channel amplifier with up to 1000 W of total available output power. Each amplifier channel can be configured for Lo-Z output to drive 4 or 8 Ω speakers or Hi-Z output to drive a 70V or 100V distributed speaker system. A stereo BUS line input and output are available, allowing an audio signal to be distributed to multiple amplifiers from one source. Alternatively, dedicated balanced and unbalanced inputs are provided for connection to up to two stereo sources or four mono sources.

NOTE: Each configuration can output up to its respective power rating.

Solid and Efficient Performance

The AMP-X1000 is engineered to deliver exceptional performance and reliability with low distortion, low noise, and high power headroom. Advanced Class D technology maximizes efficiency to reduce power consumption and heat dissipation. An internal universal power supply ensures consistent performance at varying line voltages.

Stackable Design

The AMP-X1000 is housed in a compact 1 RU form factor. Its efficient design ensures cool running operation and long term reliability. The amplifier is high-density stackable with other Crestron amps, allowing multiple units to be installed vertically in an equipment rack without needing extra ventilation space. Rack mount parts are included, so no additional mounting accessories or rack shelves are required.

Fully Protected

The AMP-X1000 features protection against overheating, shorted or overloaded speaker lines, excessive input signals, and other faults. In the case of a shorted speaker line or overheating condition, affected outputs mute automatically until the fault condition is resolved.

Energy Efficient

In addition to its high efficiency under operation, the amplifier draws no added inrush current during power-up, thereby reducing AC circuit requirements and allowing multiple amplifiers to be connected to a single switched circuit. To reduce energy usage further, the AMP-X1000 can be configured to enter a low-power standby state if no input signal is detected on any channel for 25 minutes. Signal detection sensitivity has been optimized to improve response time when triggering the amplifier to the on state, allowing it to return to full operation within a half-second. The REMOTE input can be connected to a contact closure to place the amplifier outputs in a controlled standby mode.

AMP-X1000

X-Series Amplifier, 1000 W

Specifications

Audio

Input Signal Types Balanced or unbalanced analog line-level

Output Power Per Channel (RMS, continuous up to 10 seconds) 250 W (4 or 8 Ω), 500 W (8 Ω only), 500 W (70V/100V)

NOTE: Total simultaneous output power across all channels will not exceed 1000 W

Frequency Response 20 Hz to 20 kHz \pm 0.5 dB at 1 W

High-Pass Filter (70V and 100V operation only) -3 dB @ 80 Hz, -12 dB/octave

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

S/N Ratio >103 dBA, 20 Hz to 20 kHz, balanced

Crosstalk -75 dB at 1 kHz

Input Sensitivity 1.23 Vrms, +4 dBu balanced; 0.316 Vrms, -10 dBV unbalanced

Gain 29 dB @ 8 Ω

Protection Overcurrent, undervoltage, overtemperature, DC offset, extreme high frequency

Go to Sleep Time 25 minutes with no signal present (when set to POWER SAVER)

Wake Time 0.5 s typical

Wake Threshold 0.44 mV typical

Connectors

CH1-CH4 (OUTPUT) (4) 2-pin 5.08 mm pitch, 12A plug with screw locking retainers; Power amplifier output; Wire Size: Terminals accept up to 12 AWG (3.31 mm)

NOTE: Output is direct-coupled, not transformer isolated.

AUDIO IN (UNBALANCED) (4) RCA connectors, female; Unbalanced line-level audio inputs; Maximum Input Level: 2.24 Vrms, +7 dBV (+9.2 dBu)

AUDIO IN (BALANCED) (4) 3-pin 3.5 mm detachable terminal block; Balanced line-level audio inputs; Maximum Input Level: 7.75 Vrms, +20 dBu; Input Impedance: 20 k Ω

BUS INPUT (2) paired RCA connectors, female; Unbalanced line-level audio inputs

BUS OUTPUT (2) paired RCA connectors, female; Unbalanced line-level audio outputs, buffered

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

Chassis Ground (1) 6-32 screw; Chassis ground lug

100-240V~ 1.2-0.6A 50/60 Hz (1) IEC 60320 C14 main power inlet; Mates with removable power cord, included

Controls & Indicators

PWR (1) White/Red LED; White indicates amplifier is on and ready for use; Red indicates amplifier is in standby

HI-Z (4) White LEDs (one per output); Indicates when Hi-Z mode is enabled (70V or 100V);

SIGNAL (4) White LEDs (one per output); Indicates when an audio signal is present

FAULT (4) Red LEDs (one per output); Indicates that the output channel is faulted or clipping

GAIN 1-4 (4) Screwdriver-adjustable rotary controls, one per output channel; Adjusts the attenuation level for the corresponding output channel

INPUT SEL 1-4 (4) Rotary controls, one per output channel; Selects input source from RCA, Balanced, BUS left/right, or BUS mono

OUTPUT 1-4 (4) Rotary controls, one per output channel; Selects 4-8 Ω 250 W, 8 Ω 500W, 70V, or 100V operation

Power Mode (1) Slide switch; Selects Power Saver or Always On operation

Power

Main Power 1.2-0.6A @ 100-240VAC, 50/60 Hz

Power Consumption 227 W, (4 channels driven at 1/8th output power, 4 Ω); 11.5 W, idle; 0.37 W, power saver (115VAC/60 Hz)

Environmental

Temperature 41 to 104°F (5° to 40°C)

Humidity 10% to 90% RH (non-condensing)

AMP-X1000

X-Series Amplifier, 1000 W

Heat Dissipation	268 BTU/hr @ 4 Ω , all channels driven at 1/8th output power; 39 BTU/hr all channels idle; 1.3 BTU/hr in standby
-------------------------	---

Specifications are subject to change without notice.

©2025 Crestron Electronics, Inc.

Rev 09/15/25

Construction

Chassis	Metal, convection cooled (fanless)
Front Panel	Metal, black finish with polycarbonate label overlay
Mounting	Freestanding or 1 RU 19 in. rack mountable; Stackable with other Crestron AMP series products (adhesive feet and rack mounting hardware all included)

Dimensions

Height	1.75 in (44 mm) without feet; 1.89 in (48 mm) with feet
Width	19.00 in (483 mm)
Depth	14.57 in (370 mm)

Weight

10.7 lb (4.8 kg)

Compliance

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

Model

AMP-X1000

Modular Amplifier

Available Accessories

For a list of available accessories, visit the [AMP-X1000](#) product page.

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.

Crestron and the Crestron logo are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. UL is either a trademark or registered trademark of Underwriters Laboratories, Inc. in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography.

