



AMP20

Mini Stereo Amplifier

► Features

- 1 x Stereo Balanced line input
- 1 x Balanced microphone input
- Remote wall mixer connection
- Remote volume controller connection
- 2 x 15 Watt output power (1 x 30 Watt in Bridge)
- Class-D Technology
- Auto Power Down
- Energy Star Compliant (Version 3.0)
- Easy & Compact installation

► Applications

- Classrooms
- Meeting rooms
- Audiovisual installations
- Presentation rooms
- Residential applications
- Offices
- ...



The AMP20 is a Mini Stereo Power Amplifier with a power rating of 2 x 15 Watt, that lends itself perfectly to small speaker systems requiring compact and economical audio solutions. It offers the ideal solution for applications such as class rooms, offices and meeting rooms where only a small amount of speakers are required.

The compact size and very high efficiency makes it perfectly suited to be hidden in a closet, on a false ceiling or mounted under a desk or table. The combination of the stereo balanced line, with microphone input, makes it perfectly suited for applications where it should be used in combination with projection screens and video sources while a microphone is connected. Two gain potentiometers make it possible to control the sensitivity and balance between music and speech, while a switch allows bridging of the output channels to obtain one channel with merged output power.

A remote wall mixer can be connected for applications where local mixing for the inputs is desirable, while large distances can be covered between the source and amplifier using simple CAT5 twisted pair cabling. The volume controller input allows connection of an additional wall controller for overall volume control.

The Class-D Amplifier technology, standby mode and included switching power supply makes this device compliant to the highest energy efficiency and environmental requirements.

► Specifications

SYSTEM SPECIFICATIONS	
RMS Power @ 4 Ohm Stereo	2 x 15 Watt
RMS Power @ 8 Ohm Stereo	2 x 7.5 Watt
RMS Power @ 8 Ohm Bridge	30 Watt
Inputs	1 x Stereo Balanced Line (3-pin Euro Terminal Block - 3.81 mm) 1 x Balanced Microphone (2 x 3-pin Euro Terminal Block - 3.81 mm) 1 x Remote Wall Mixer (RJ45) 1 x Remote Volume controller (RJ45)
Outputs	1 x Stereo Loudspeaker (4-pin Euro Terminal Block - 5.08 mm)
Line input	Impedance 20 k Ohm Sensitivity - 12 dBV ~ +12 dBV
Microphone input	Impedance 47 k Ohm Sensitivity - 50 dBV ~ -18 dBV
THD+N at 1 kHz	< 0.1 %
Crosstalk	< -75 dB
Signal / Noise ratio	> 95 dB
Standby power consumption	0.8 Watt (PSD241 included)
Efficiency	87%
Cooling	Passive
Protection	Over-Heat / Over-Load / Short circuit / Limiter
Energy certification	Energy Star 3.0
PRODUCT FEATURES	
Dimensions (Width x Height x Depth)	108 x 44 x 164 mm
Weight net	0.80 Kg
Power supply	24V DC (PSD242 switching power supply included 100 ~ 240V AC / 47 ~ 63 Hz)
SHIPPING & ORDERING	
Packaging	Carton box
Shipping weight & volume	1.12 Kg - 0.0078 Cbm
Accessories included	PSD241 - Power supply 24V / 1.67 A (Efficiency Level V)
Optional accessories	VC3008/4008 Remote Vol. Control WP523 Remote Wall Mixer MBS200 Mounting Bracket TR3030 100V Transformer 30 Watt
*AUDAC reserves the right to change specifications without notice: this is part of our policy to continually improve our products	

► Architect's and Engineers' Specifications

The Amplifier shall be a Mini Stereo Power Amplifier with an output power of 2 x 15 Watt. The amplifier shall be constructed using Class-D Amplifier technology and shall be powered by an external switching power supply. Integrated circuitry shall protect against short-circuits or mismatched loads and over-heating. Due to the complete passive cooling of the device, an absolute zero production of hum and noise shall be ensured in all circumstances.

It shall contain a stereo balanced line and balanced microphone input whereof the sensitivity and balance between music and speech can be adjusted using two gain potentiometers on the front panel. Additionally a Stereo & Mono / Bridge switch shall be provided whereby both amplifier can be bridged, delivering merged output power to a mono load. A clip limiter shall automatically reduce the input gain at onset of distortion and connection possibilities for connecting a remote volume controller and remote wall mixer shall be provided.

All connections shall be made on the rear panel of the unit. The signal input connections shall be balanced and performed using 3-pin terminal block connectors while the output connections shall be performed using a 4-pin terminal block connector. The connections between the (optional) remote input and control units shall be made using twisted pair CAT5 cabling fitted with RJ45 connectors.

The automatic standby mode circuitry in combination with the high efficiency and the included power supply meeting the Efficiency Level V requirements shall make the device compliant to the Energy Star 3.0 requirements.

The amplifier shall operate on a 100 ~ 240 V AC / 50 ~60 Hz mains network and shall be constructed in a miniature aluminum housing which can be easily mounted and hidden using an optional mounting bracket.

► Block diagram
