



AMP523 MK2

Mini stereo power amplifier

► Features

- S-Box™ modular enclosure
- 4 x Stereo line inputs
- 1 x Balanced microphone input
- Phantom power & priority on microphone
- TCP/IP & RS-232 Control
- Stereo line output
- 2 x 15 Watt output power (1 x 30 Watt in Bridge)
- Class-D Technology
- Compact & lightweight Class-D amplifier

► Applications

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



The AMP523MK2 is a mini stereo power amplifier with integrated web based and remote control functionalities. It features four stereo line inputs and one balanced microphone input (with phantom power) while the output is capable of delivering a power up to 2 x 15 Watt.

The simple and compact construction combined with versatile functions makes it perfectly suited for small speaker systems requiring compact and economical audio solutions. Typical applications are classrooms, offices or meeting rooms where audio systems are used in combination with smartboards or presentation systems.

The various stereo line level inputs allow simultaneous connections for different types of audio sources such as computers, all types of media players, portable devices including laptops and tablets while combining with a microphone.

The input switching, volume regulation and other controllable functions are possible from any computer through the integrated webserver without requiring additional software, while RS-232, TCP/IP and RS-485 control ports allow control through any home or industrial automation system. Implementation with the freely available Audac Touch™ application for smart devices allows simple implementation into a total system control platform.

The compact size and high efficiency with no heat dissipation combined with different kinds of optionally available mounting brackets allows desk, closet or 19" equipment rack installation.

Optional MWX45 wall panels can be installed to control the signal routing and volume level from one or multiple fixed locations.

► 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		4 x Stereo Balanced Line (18-pin Euro Terminal Block - 3.81 mm) 1 x Balanced Microphone (18-pin Euro Terminal Block - 3.81 mm) RS-485 + Differential audio (RJ45) RS-232 (SUBD9) Ethernet (RJ45)
Outputs		1 x Stereo Loudspeaker (4-pin Euro Terminal Block - 5.08 mm)
Line input	Impedance	20 k Ohm
	Sensitivity	- 10 dBV ~ +4 dBV
Microphone input	Impedance	47 k Ohm
	Sensitivity	- 45 dBV ~ -20 dBV
THD+N at 1 kHz		< 0.1 %
Crosstalk		< -75 dB
Signal / noise ratio		> 95 dB
Standby power consumption		< 3.0 Watt (PSD241 included)
Efficiency		87%
Cooling		Passive
Protection		Over-heat / Short circuit / Limiter
Control		RS-232
		TCP/IP
		RS-485
PRODUCT FEATURES		
Dimensions (Width x Height x Depth)		108 x 44 x 165 mm
Weight net		0.81 Kg
Power supply		24V DC (PSD241 switching power supply included 100 ~ 240V AC / 47 ~ 63 Hz)
SHIPPING & ORDERING		
Packaging		Cardboard box
Shipping weight & volume		1.13 Kg - 0.0078 Cbm
Accessories included		PSD241 - Power supply 24V / 2.7 A
Optional accessories		MWX45 Wall controller
		WMI18 & WLI18 Wall input units
		MBS1xx Optional mounting brackets
		TR3030 100V Transformer 30 Watt
*AUDAC reserves the right to change specifications without notice: this is part of our policy to continuously improve our products.		

► Architects' and Engineers' Specifications

The amplifier shall be a mini stereo power amplifier with an output power of 2 x 15 Watt, containing multiple and various types of inputs allowing connections for a wide variation of audio sources combined with a microphone. 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 four unbalanced stereo line inputs and one balanced microphone input with phantom power allowing simultaneous connections for different types of audio sources. The input selection, volume regulation and other controllable functions are available from a web based platform and controllable through RS-232, RS-485 and TCP/IP control ports. A stereo & mono / bridge function shall be provided whereby both outputs can be bridged, delivering merged power to a mono load.

All connections shall be made on the front & rear panel of the unit. The signal input connections shall be implemented using terminal block connectors while the output connections shall be performed using a 4-pin terminal block connector. The system shall be expandable through (optional) remote wall audio input and wall panel controller units which are connected to the system using twisted pair CAT5 cabling fitted with RJ45 connectors.

The mini stereo power amplifier shall be implementable in a total system control application which is compatible with Android and iOS devices, allowing combining its controls together with other audio&video equipment from one single dashboard.

The amplifier shall operate on a 100 ~ 240 V AC / 50 ~60 Hz mains network. The enclosure shall be an S-Box™ modular aluminum enclosure with dimensions 108 x 44 x 165 mm which can be easily mounted and hidden using an optional mounting brackets and the weight shall not exceed 0.81 Kg.

► Technical drawing

