AMP523

Web-based mini stereo amplifier 2 x 15W

Highlights:

- Compatible with AUDAC Touch™ 2
- RS232 & TCP/IP control port
- 4 unbalanced stereo line inputs
- 1 x Microphone input
- Priority audio inputs with phantom power
- Lightweight class-D amplifier
- S-box™ modular multifunctional enclosure

Product information:

The AMP523 is a mini stereo amplifier with an integrated web-based control unit featuring four stereo line inputs and one balanced microphone input with phantom power. It has an output power rating of 2 x 15 Watt. The simple and compact but versatile functionalities make it perfectly suited for small speaker systems requiring compact and economical audio solutions which are comprehensive and easily controllable. Some typical applications are classrooms where the audio system will be used in combination with a smartboard, offices and meeting rooms where the music should switch automatically from background music to speech or playback when the presentation starts, …. and many other similar applications.

The compact size and very high efficiency even make it possible to hide it in a closet, on a false ceiling or mount it under a desk or table. The various stereo line inputs allow simultaneous connections for different sources such as laptops, CD or MP3 players and tablets while having a microphone connected. The switching between the inputs, volume regulation and other function controls can be done in multiple ways: an integrated website makes it possible to control all the functions from any computer with a web browser without requiring additional software while the RS232 connection makes it possible to control the AMP523 with any device supporting serial communication such as a computer or even a home or industrial automation system. Another option is to control the system through smartphones and tablets using the special developed AUDAC Touch™ app.

Using this freely available application for smart devices guarantees total system control and configuration from any device on any location and at any time. To make the installation even more complete, an optional MWX43 or MWX45 wall panel can be installed to control the signal routing and volume level from one or multiple fixed locations. The Class-D amplifier technology, standby mode and included switching power supply makes this device compliant to the highest energy efficiency and environmental requirements. A variety of optionally available mounting brackets for the AUDAC S-Box product range are allowing desk, closet or 19” equipment rack installation.

Applications:

- Education
- Corporate spaces
- Residential

System specifications:

RMS Power	Satellite	@ 8 Ω Bridge	30 W
Inputs	Unbalanced Stereo	Type	4 x Stereo Unbalanced Line
	Balanced Stereo	Connector	18-pin Euro Terminal Block (Pitch - 3.81 mm)
		Impedance	20 kΩ
		Sensitivity (1W/1m)	-10 dBV ~ +4 dBV
	Balanced Microphone	Type	1 x Balanced Microphone
		Connector	18-pin Euro Terminal Block (Pitch - 3.81 mm)
		Impedance	47 kΩ
		Sensitivity (1W/1m)	-45 dBV ~ -20 dBV
	Other	Type	1 x RS-485 + Differential audio
		Connector	RJ45
		Type	1 x RS-232
		Connector	SUBD9
		Type	1 x Ethernet
		Connector	RJ45
Outputs	Type		1 x Stereo Loudspeaker
	Connector		4-pin Euro Terminal Block (Pitch - 5.08 mm)
THD+N (@ 1 kHz)			< 0.1%
Crosstalk (@ 1 kHz)			< -75 dB
Signal / Noise			> 95 dB
Power	Consumption	Standby	< 3.0 W (PSD242 included)
	Supply		24V DC (PSD241 switching Power supply included 100 ~ 240V AC / 47 ~ 63 Hz)
Efficiency			87%
Cooling			Passive
Protection			Over heating
			DC Short circuit
			Limiter
Control			RS-232
			TCP/IP
			RS-485
RMS Power	@ 4 Ω Stereo		2 x 15 W
	@ 8 Ω Stereo		2 x 7.5 W

Product Features:

Dimensions		108 x 44 x 165 mm (W x H x D)
Weight		0.81 kg
Accessories	Included	PSD241 - Power supply 24V / 1.67 A (Efficiency Level V)
	Optional	Wall Controller (MWX43/45)
		WMI18/22 & WLI18/22 Wall input unit
		MBS1xx Wall mounting brackets
		TR3030 100V Transformer 30 W

Shipping & Ordering:

Packaging	Cardboard box
Shipping weight & volume	1.13 kg - 0.0078 Cbm

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 drawings: