AMP203

Dante™/AES67 mini stereo amplifier

Highlights:

- Compatible with AUDAC Touch™
- Compatible with TouchLink™
- Advanced DSP and loudspeaker management
- Unbalanced stereo line output (3-pin terminal block)
- Dante™/AES67 digital audio input
- PoE 802.3bt (and lower) compatible
- Ethernet & RS-485 control possibilities

Certification:

Dante
Dante Domain manager

Product information:

The AMP203 is a revolutionary mini stereo amplifier, featuring network input through Dante™ or AES67 providing a complete media networking solution to distribute uncompressed audio via standard Ethernet networks with near-zero latency while allowing all other data to be connected on the same network.

Various DSP functionalities are implemented in the AMP203. This allows all configurations to be made in AUDAC Touch™ 2 or via RS485 and Ethernet, making it a fully-fletched 2 x 30W amplifier. The output connector has been implemented using a 4-pin terminal block connector, featuring an output power of 30W per channel and 60W when bridged.

The 3-pin terminal block stereo line output connector gives the option of looping the AMP203 to the next amplifier.

Using PoE (Power over Ethernet) this extremely power-efficient amplifier receives both power and signal through a single networking cable, this way flexibility is maximized while needed cabling is kept at a minimum.

The compact convection cooled enclosure eliminates any humm or buzz otherwise caused by a fan. Various optional mounting brackets are available like the MBS1xx series, which allow it to be mounted under a desk, in a closet, on the wall, on top of a dropped ceiling or to a 19" equipment rack. This proves that the AMP203 is the perfect solution for compact to medium-sized applications in corporate, hospitality or retail environments.

Decentralize your system

Thanks to the multifunctional use of the AMP203 in combination with the AUDAC Touch™ application it is possible to create a decentralized multi-zone system. By simply connecting the AMP203 to the local network and connecting the loudspeakers, a new zone can be introduced to your system.

We reserve the right to change specifications without notice, this is part of our policy to continually improve our products.

Applications:

- Bars & Restaurants
- Education
- Corporate
- Retail
- Residential

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System specifications:

RMS/AES power handling	@ 2 Ω Bridge		1 x 60 W
	@ 4 Ω Stereo		2 x 30 W
	@ 4 Ω Bridge		1 x 60 W
	@ 8 Ω Stereo		2 x 30 W
	@ 8 Ω Bridge		1 x 30 W
THD+N (@ 1 kHz)			< 0.015%
Crosstalk (@ 1 kHz)			< -98 dB
Efficiency			> 70%
Cooling			Convection cooled
Control			RS-485
			TCP/IP
Power			PoE 802.3bt
	Supply		24 V DC
Inputs	Other	Type	1 x Ethernet
			RS-485
			Dante™/AES67 (4 channels)
		Connector	RJ45
Protection			Over heating
			Over load
			DC Short circuit
			Signal limiting
Outputs	Type		1 x Stereo Loudspeaker
			1 x Line output
	Connector		4-pin Euro Terminal Block (Pitch - 5.08 mm)
			3-pin Euro Terminal Block (Pitch - 3.81 mm)
Power	Consumption		80 W (max.)
		Nominal (1/8 MUP)	10.6 W
		Standby	3 W
		Idle	6.6 W

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Product Features:

Dimensions	108 x 44 x 165 mm (W x H x D)
Weight	0.7 kg

Architects' and Engineers' Specifications:

The amplifier shall be a Dante® mini stereo amplifier with an output power of 2 x 30 Watt. It shall be compatible with networked audio transmission protocols including Dante® and AES67 for the distribution of uncompressed audio over standard Ethernet networks. The amplifier shall be constructed using Class-D amplifier technology and the power supply shall be transferred over PoE (Power over Ethernet) compatible with the IEEE 802.3bt standard.

Various integrated DSP functions shall be included, including a 2-band tone control, freely configurable filters and the possibility for integration of WaveDynamics™ speaker presets. Additionally, the system shall be fully controllable through implementation in a total system control platform that is compatible with a wide variation of operating systems including Android, iOS, Windows, Mac and Linux. This application shall allow the creation and customization of application-specific dashboards, allowing combining its controls together with other audio & video equipment from one single dashboard.

The gain of the input channels and the maximum output level shall be software configurable. The outputs shall be stereo while configuring to bridge mode delivers merged output power to a single load. 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. Intelligent output power limiting shall avoid drawn output power to exceed the supply capacity of the available PoE networking equipment.

Full system control shall be possible through TCP/IP, while an additional RS-485 port allows integration and expansion of the system through wall control panels or other RS-485 compatible devices. The RS-485 connection is implemented through an RJ45 connector, while speaker outputs are connected through 4-pin terminal block connectors.

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 bracket and the weight shall not exceed 0.7 kg.

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