

SN2408

ENERGY-EFFICIENT 80-WATT MIXER AMPLIFIER WITH
DUAL 70/100 V AND 4 Ω OUTPUTS FOR DISTRIBUTED MUSIC,
PAGING AND AV APPLICATIONS

EUROCOM Installed Sound

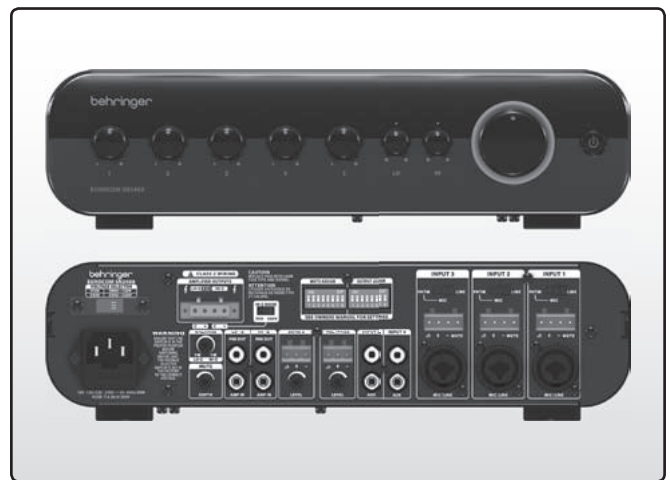
SN2408 Features:

- Multi-function 80-Watt mixer amplifier with dual 70/100 V and 4 Ω outputs, designed for continuous operation in distributed music, paging and AV applications
- State-of-the-art, energy-saving Switch-Mode Power technology with up to 80% power efficiency drastically reducing energy cost
- 2 transformerless, cool-running Class-D amplifiers simultaneously drive 70/100 V and 4 Ω loads with adjustable Balance control
- 3 microphone inputs on XLR/TRS or Euroblock connectors with switchable Mic/Line and Phantom Power
- Dedicated Tel/Page input with adjustable gain on Euroblock connector for paging
- Assignable Zone 2 output with adjustable gain control on Euroblock connector
- Pre Out/Amp In processing loop for each amplifier channel on dual RCA connectors
- 2 Aux inputs for music or program signals on RCA connectors
- Variable voice-activated or contact-activated music muting
- Lo and Hi frequency EQ for ultimate sound adjustment
- Intuitive front panel with input level controls and dual-function indicator ring

Product Overview:

Combining superior performance and extraordinary flexibility with unprecedented value and style, the EUROCOM SN2408 mixer-amplifier is an innovative yet practical solution for distributed sound in medium-complexity environments. Incorporating BEHRINGER's exclusive DualDrive technology, the SN2408 is powered by two independent mono amplifiers, one with a high impedance output that may be set to either 70 or 100 V, and the other with a standard low-impedance output. This uniquely versatile configuration addresses the needs of hybrid distributed/low-impedance systems, allowing easy installation and configuration of multi-zone setups in bars, recreation facilities, conference rooms, boardrooms, hotels, and other venues.

With a sleek, compact exterior that's at home in the chic-est of settings, the SN2408 can be shelf-mounted within convenient reach rather than hidden away in a back room. The clear, intuitive front-panel design, which allows easy operation by non-technical personnel, includes level controls for all inputs as well as high and low EQ settings to



SN2408 Technical Specifications:

Audio Inputs

Microphone inputs	3 x XLR / ¼" TRS combo jacks (-50 dBv, 600 Ω balanced)
	3 x 4-pin Euroblock (0 dBv, 10 kΩ balanced)
Phantom power	+24 VDC
Auxiliary inputs	2 x RCA stereo summed (0 dB, 10 kΩ unbalanced)
Tel/Page input	3-pin Euroblock (-10 dBv, 600 Ω balanced)

Audio Outputs

Zone 1 speaker outputs	1 x 4-pin Euroblock connector (LO-Z and HI-Z)
Zone 2 line-level output	1 x 3-pin Euroblock connector
Impedance	+4 dBV, 600 Ω balanced

Amplifier

Amplifier channels	LO-Z: 1 x 4 Ω, minimum HI-Z: 1 x 70 / 100 V, switchable
Power output LO-Z	80 W RMS @ 8 Ω
1 % THD, 1 kHz sine wave	125 W RMS @ 4 Ω
Min. impedance	4 Ω
Power output HI-Z	80 W RMS @ 70 V
1 % THD, 1 kHz sine wave	160 W RMS @ 100V
Min. impedance	62.5 Ω @ 70 V 62.5 Ω @ 100 V



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Product Overview continued:

optimize the sound for any environment. The front-panel master volume knob is surrounded by an indicator ring that glows yellow for power on and flashes red at the onset of clipping. Paging functions are automated so that user action is not required to duck background audio during pages.

The SN2408 includes three input channels that accept balanced or unbalanced signals via XLR/TRS (1/4-inch) combination jacks or 4-pin Euroblock connectors. Each channel is equipped with a three-position switch to select line, mic, or mic with phantom power (48 V). Two additional input channels, each with a pair of RCA jacks that are summed internally to mono, allow playback from external sources such as CD/MP3 players, cable boxes, and radio/TV tuners.

Loudspeakers connect via a 4-pin Euroblock connector wired for both high-Z and low-Z outputs. Two additional 3-pin Euroblock connections, each with an associated level control, include a Tel/Page input for integration with telephone paging systems and a Zone 2 line-level output to feed a supplemental sound reinforcement system. Effects send and receive, used to insert external processing such as dynamics or EQ, is also provided for each of the two amps using line-level RCA jacks.

Extensive back-panel control allows the installer to rapidly customize the SN2408 to the needs of a specific installation. Switches are provided to select mains voltage (115 or 240 VAC) and high-Z output (70 or 100 V). A Balance control adjusts the relative levels of the two power amplifiers. Output Assign DIP switches determine which inputs are included in the Zone 2 output and enable/disable external processing inserts for each amp. Mute Assign DIP switches enable/disable mute send and receive signals for the three main inputs plus Tel/Page, and a Mute Depth control adjusts the degree of attenuation.

SN2408 operation is both cool and extraordinarily energy-efficient thanks to transformerless Class-D amplifiers that utilize switch-mode power supplies. The low-Z amplifier delivers 80 W RMS into 8 Ω and 125 W RMS into 4 Ω, while the high-Z amplifier delivers 80 W RMS at 70 V and 160 W RMS at 100 V. Each amplifier is protected with DC and thermal overload protection, as well as by automatic limiting that prevents overload, clipping, and distortion.

With every detail thought through from both the installer and end-user perspective, the SN2408 offers the ideal balance between versatility and ease-of-use, making it a perfect match for commercial sound requirements in retail, hospitality, office, medical, educational, and industrial spaces.

SN2408 Technical Specifications continued:

System Information

Controls	3 x Mic / Line gain (Inputs 1 – 5) Lo tone: ± 15 dB @ 100 Hz Hi tone: ± 15 dB @ 10 kHz Master volume Tel / Page level Zone 2 send level Mute depth Power on / off Voltage, 115 / 230 VAC Hi-Z mode, 70 / 100 V 3 x Phantom / Mic / Line, 3-position dip switch Mute Assign, 8-position DIP switch Output Assign, 8-position DIP switch
Indicators	Dual-function indicator ring (Volume control) Yellow (Power on) Red (Clip)
Output circuit type	2 x Class D, transformerless Dual output (LO-Z / HI-Z)
Amplifier protection	Thermal and DC protection Automatic limiters
Frequency response	50 Hz – 218 kHz, ± 1 dB @ 1 W (70 / 100 V)
Dynamic range	Mic: 65 dB Aux: 80 dB Tel: 78 dB
THD+N	0.05 % @ 1 W, 1 kHz dB into 8 Ω load
Signal-to-noise ratio	90 dB @ 1% THD+N

Power Supply (Fuses)

Mains voltage	Switchable, 100-120 VAC 220-240 VAC~, 50-60 Hz
Fuse	T 6.3 A H 250 V
Power efficiency	70%
Power consumption	80 W @ 1/8 of max rated output
Mains connector	Standard IEC receptacle

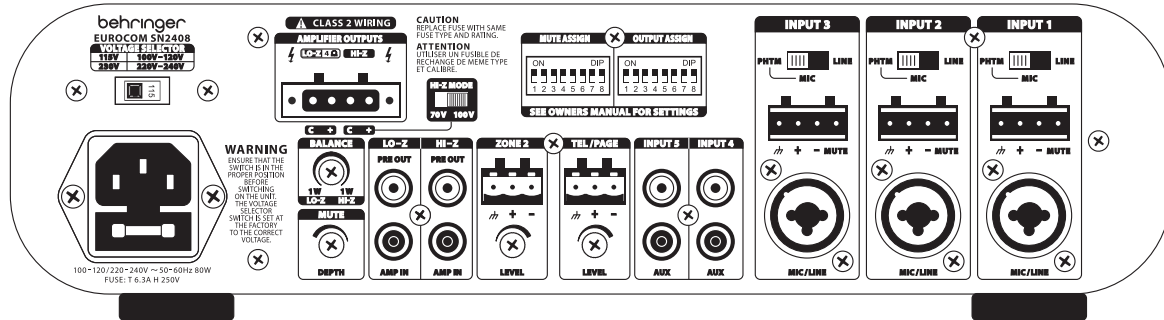
Dimensions / Weight

Dimensions (H x W x D)	3.3 x 12 x 14.2" / 83 x 305 x 360 mm
Weight	9.2 lbs / 4.2 kg

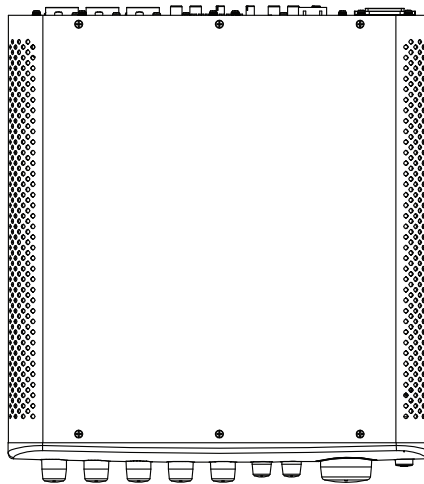
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Dimensional Drawings:

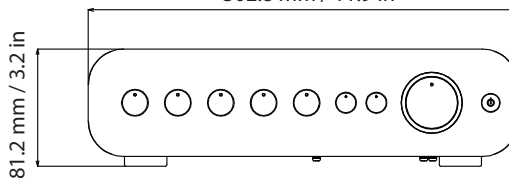


REAR



TOP

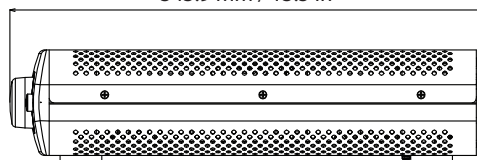
302.8 mm / 11.9 in



81.2 mm / 3.2 in

FRONT

343.9 mm / 13.5 in



SIDE

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Architect's and Engineer's Specifications:

Summary description: The mixer-amplifier shall be of compact, shelf-mountable multi-input design with built-in paging functions and two mono transformerless Class D power amplifiers with switch-mode power supplies, one low-Z and one high-Z (70/100 V) for distributed speaker systems.

Controls and indicators shall include the following:

- Master Volume knob for setting overall volume
- Indicator ring for power (yellow) and clipping (flashing red)
- HI EQ/LO EQ knobs to adjust the overall treble and bass
- Input level knobs (1-5) to set the relative level of each input
- Phantom/Mic/Line switches (3) to select input channel mode
- Tel/Page input screw pot to adjust telephone paging input
- Zone 2 output screw pot to adjust the level of the Zone 2 feed
- Mains voltage switch to select 115 or 240 VAC
- High-Z output switch to select 70 or 100 V operation
- Balance screw pot to adjust the relative output of the two amps
- Output Assign DIP switches to assign inputs to the Zone 2 out and to enable/disable external processing inserts for each amp
- Mute Assign DIP switches to enable/disable muting
- Mute depth screw pot to set ducking of aux inputs during pages
- Power switch to turn the unit on and off

Connections to the mixer-amplifier shall include:

- Mic/Line inputs on three XLR/TRS (1/4-inch) combination jacks and three 4-pin Euroblock connectors
- Aux inputs (2 pair), unbalanced line-level RCA, summed to mono
- Output for both high- and low-Z on a 4-pin Euroblock connector
- Tel/Page input on a 3-pin Euroblock connector
- Zone 2 line-level output on a 3-pin Euroblock connector
- Effects inserts on RCA jacks (send and receive for each amp)
- AC power on IEC jack

Protections incorporated into the amplifier shall include automatic limiting and independent DC and thermal overload protection.

Performance criteria met by the mixer-amplifier shall include:

- RMS power output (1 kHz @ 1% THD) for the low-Z amp of 80/40 W (4/8 Ω) and for the high-Z amp of 80/80 W (100/70 V)
- Frequency Response (1 W, 70/100 V) of 20 Hz-20 kHz, +/- 1 dB
- Dynamic range of 65 dB for Mic, 80 dB for Aux, 78 dB for Tel
- Distortion (THD+N; 1 W, 1 kHz) of 0.05% into 8 Ω
- Signal to Noise Ratio (1% THD+N) of 90 dB

AC Power requirements of the mixer-amplifier shall be:

- Mains voltage of 115 or 240 VAC at 50~60Hz
- Power consumption at rated power output of 130 W for 70 V only, 220 W for 100 V only, and 370 W for 100 V and 4 Ω together
- Power efficiency of 70%

Physical characteristics of the mixer-amplifier shall be:

- Height x Width x Depth of 3.3 x 12 x 14.2 in (83 x 305 x 360 mm)
- Net weight of 9.2 lbs (4.2 kg)

Model: The mixer-amplifier shall be the BEHRINGER EUROCOM SN2408.