

SSOUNDS DSP 4x8

4-in / 8-out loudspeaker processor, 96 kHz, 1/36-octave filters and full system alignment.



SSOUNDS DSP 4x8

AT A GLANCE

MODEL / SKU	CATEGORY
SS-DSP-48	DSP / Processors
BRAND	DRIVE
SSOUNDS	Active
CONDITION	
New	
APPLICATIONS	
DSP	PROCESSOR
FIR	SYSTEM

OVERVIEW

The SSOUNDS DSP 4x8 is the system processor behind our touring and install rigs: four balanced inputs, eight balanced outputs and a 300 MHz floating-point engine running at 96 kHz. Five parametric EQ sections per output with 1/36-octave resolution, independent high- and low-pass filters with Bessel, Butterworth and Linkwitz-Riley responses, alignment delay and per-output limiting. One rack unit, 4.2 kg, and the same loudspeaker presets our engineers use on site.

TECHNOLOGIES

 PHASETRUE	FIR phase-linear crossovers for a coherent impulse response through the crossover region.
 VOXCLEAR	Voicing developed for speech intelligibility in acoustically difficult rooms.
 SNET	Networked control and monitoring for every amplifier and processor in the system.

SPECIFICATIONS

GENERAL

Type	Digital loudspeaker processor, 4 in / 8 out
Certifications	TÜV

PERFORMANCE

Frequency response	20 Hz - 20 kHz (96 kHz sampling)
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PROCESSING

Engine	300 MHz high-performance floating-point DSP · 32-bit
Sample rate	96 kHz
Parametric EQ	5 sections per output · +15 dB to -30 dB in 0.1 dB steps
EQ centre frequency	20 Hz - 20 kHz · 1/36-octave (368 positions) · Q 0.01-10
High-pass filter	1 per output · 10 Hz - 16 kHz · 1/36-octave steps
Low-pass filter	1 per output · 60 Hz - 22 kHz · 1/36-octave steps
Filter types	Bessel / Butterworth 12 · 18 · 24 dB per octave · Linkwitz-Riley 24 dB per octave
Limiters	Per output channel

CONNECTORS & I/O

Inputs	4 × XLR3 electronically balanced · CMRR > 65 dB (50 Hz - 10 kHz)
Outputs	8 × XLR3 electronically balanced · max +20 dBu into 600 Ω
Control	Front panel · USB (loudspeaker control software)

PHYSICAL & CONSTRUCTION

Dimensions (H × W × D) ²	44 × 483 × 285 mm
Format	19" 1U rack
Net weight ¹	4.2 kg / 9 lb

NOTES

1. Net weight excludes packaging, flight case, accessories and optional rigging hardware.
2. Dimensions are stated in millimetres and exclude protruding rigging hardware, handles and connector panels unless noted.
3. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

DOWNLOADS & DATA FILES

SSOUNDS DSP 4x8: User Manual

MANUAL

Loudspeaker data files for prediction software (GLL / CLF for EASE), 2D and 3D drawings and certification documents are issued on request. Contact support@s-soundspro.com and we will send the current release for this model.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The processor shall be of the SSOUNDS DSP 4x8 type, configured as a digital loudspeaker processor, 4 in / 8 out. The processor shall be capable of meeting the following performance criteria: a frequency response of 20 Hz – 20 kHz (96 kHz sampling). Connection shall be by 4 × XLR3 electronically balanced, CMRR > 65 dB (50 Hz – 10 kHz). The processor shall be measuring 44 × 483 × 285 mm, and shall weigh 4.2 kg / 9 lb. The processor shall be covered by the manufacturer's two (2) year limited warranty and shall be supplied by SSOUNDS or an SSOUNDS-authorized distributor. No alternate shall be accepted without prior written approval of the consultant or specifying engineer.

SAFETY & COMPLIANCE

Read this section before specifying, installing or operating this product. It summarises the safety requirements set out in full in the product documentation supplied with the unit; where the two differ, the product documentation takes precedence.

SOUND PRESSURE LEVEL & HEARING

This equipment is capable of producing sound pressure levels that cause permanent hearing damage. Do not operate at high level in close proximity, and ensure that operators, performers and audience exposure complies with applicable occupational noise-exposure regulation. Provide hearing protection where exposure limits may be exceeded.

ELECTRICAL SAFETY

Connect only to a correctly earthed supply of the voltage and frequency stated on this sheet and on the product rating label. Where the supply is a generator, confirm stable voltage and frequency and adequate earthing before connection; unstable supply is the most common cause of amplifier failure and is not covered by warranty. Do not operate with a damaged mains lead or connector. There are no user-serviceable parts inside. Refer all servicing to SSOUNDS or an authorised service centre.

ENVIRONMENT & MECHANICAL

Unless a published IP rating states otherwise, this product is intended for indoor use or for outdoor use under cover, and must be protected from rain, standing water and prolonged direct sun. Ensure ventilation openings are unobstructed. Stack, pole-mount and transport only as described in the product documentation, and secure the product against toppling wherever the public has access.

DISPOSAL

At end of life, dispose of the product and any packaging in accordance with local regulation for electrical and electronic equipment. Do not dispose of electronic components in general waste.

LIMITED WARRANTY: TWO (2) YEARS

SSOUNDS products are warranted against defects in materials and workmanship for a period of two (2) years from the original date of purchase by the end user. Within that period SSOUNDS will, at its option, repair or replace the defective item with no charge for parts or labour. The item must be adequately packaged and dispatched, carriage pre-paid, to SSOUNDS or an SSOUNDS-authorised service centre, accompanied by proof of purchase and a returns reference issued in advance by SSOUNDS. Unauthorised repair, modification or removal of serial-number labelling voids this warranty.

THIS WARRANTY DOES NOT COVER

- Cosmetic wear, finish, grille cloth, paintwork and consumable parts.
- Damage caused by misuse, abuse, accident, neglect, or operation outside the published ratings on this sheet.
- Damage caused by transport or handling after delivery, or by inadequate packaging on return.
- Damage caused by mains or generator supply faults (over-voltage, under-voltage, phase imbalance, surge or incorrect earthing) or by lightning.
- Water, dust or corrosion ingress on products not carrying a published IP rating for the conditions of use.
- Damage resulting from amplification or processing outside the recommended configuration on this sheet, or from third-party presets.
- Products not purchased from SSOUNDS or an SSOUNDS-authorised distributor.

This warranty is in addition to, and does not affect, any statutory rights the purchaser may have under applicable consumer law. It is the sole warranty offered; no other warranty, express or implied, is given.

Warranty claims and returns references: support@s-soundspro.com · +44 20 3769 6537

LEGAL NOTICE

All information on this data sheet is subject to change without notice. SSOUNDS reserves the right to alter specification, design and construction in the course of continuous product development.

Specifications, drawings and images are provided for guidance in system design and tender documentation. Where a figure is critical to a design, confirm it in writing with SSOUNDS before committing to a specification.

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