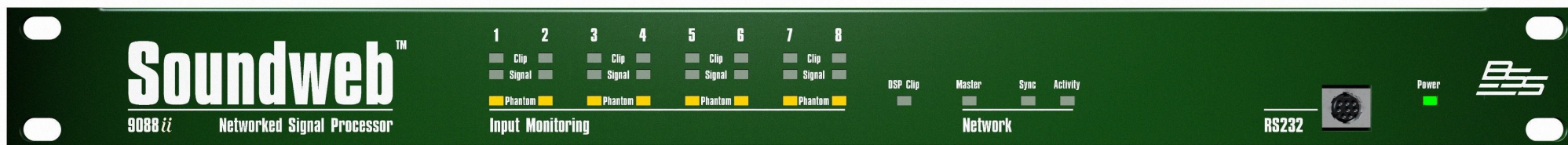


BSS - sw9088iis DSP Hardware



The Soundweb 9088*ii*/DSP unit is the heart of the Soundweb system. As a standalone single rack space device it has all the facilities required for a sound system processor - 8 inputs, 8 outputs, a DSP engine, networking for connection and signal distribution to other soundweb units, Analogue GPI control interfacing, and RS232 ports for external control by PC or AMX/Crestron type systems. Plug in an audio source, an amplifier, and speakers and you are away

All the facilities are included in a 9088*ii*, there is no additional Soundweb system hardware required to begin building physical systems. The only option decision to make is a choice of line input, mic/line input cards or AES/EBU Digital input/output cards. Each digital card accepts 2 stereo inputs at sample rates from 32kHz to 96kHz, and can output at 44.1, 48, 88.2, and 96kHz. When digital inputs are used, the analogue outputs remain in use as a mirror version of the digital output.

Each Soundweb 9088*ii* can typically hold up to 12 completely different system designs in its own memory. Programming the unit is accomplished via the Soundweb Designer software.

For safety-critical systems, the Soundweb 9088*ii* has an opto-isolated output which functions as a watchdog: the opto-isolator conducts when power is applied to the unit and the software is functioning correctly; it is cut off if there has been a power failure or other fault. This function can be used to trigger alarm systems or to construct redundant systems.

Technical Specification

Inputs

Line Inputs

Mic/Line Inputs

Maximum input level

CMRR

Equivalent Input Noise (EIN)

Phantom power

AES/EBU Digital Inputs

Outputs

Maximum output level

AES/EBU Digital Inputs/Outputs

Outputs

Digital Resolution

Frequency response

THD

Dynamic range

Crosstalk

Mains voltage

Power Consumption

Control input voltage

Control input impedance

Logic output voltage

Logic output impedance

Opto output series impedance

Watchdog Output

Opto Output current

Opto output withstanding voltage

Network

Maximum network cable length

Led Indicators

8 Analogue, electronically balanced, on Phoenix/Combicon removable screw connectors

Nominal gain 0dB, electronically switchable to +12dB gain, input impedance 10kOhm

Nominal gain 0dB, electronically switchable up to +72dB, in +6dB steps, input impedance 3.5kOhm

+20dBu with 0dB input gain (+8dBu with 12dB gain)

>75dB at 1KHz

<-128dBu typ with 150 Ohms source

48V nominal, selectable per input

2 x 2-channel inputs per card, sample rates accepted 32 to 96kHz, auto selected, on Phoenix/ Combicon removable screw connectors

8 Analogue, electronically balanced, on Phoenix/ Combicon removable screw connectors

+20dBu

2 x 2-channel outputs per card

Sample rates 44.1, 48, 88.2, 96kHz, user selectable, on Phoenix/Combicon removable screw connectors

24 bit

(+-0.5dB) 15Hz to 20KHz

<0.01% (20Hz to 20KHz, +10dBu output)

105dB typ. (22Hz to 22KHz unweighted) / 108dB typ. (A-weighted)

<-75dB

85-270V AC, 50/60Hz,

<35VA

0 to 4.5v

4.7kOhms to +5V (2-wire mode) / >1MOhm (3-wire mode)

0 or +5V unloaded

440 Ohm

220 Ohms (isolated)

Phoenix/Combicon connector for failsafe control.

14mA max

80V max. (Off)

2xRJ45 connectors for Soundweb network connection

300m/1000ft, longer distance using 9014 fibre converters

Signal Present (per input), CLIP (per input), network (front panel) input active, network output active, network Master indicator.

Dimension Audio

Unit E2

Sussex Manor Business Park

Gatwick Road

Crawley

West Sussex, RH10 9NH

Tel.: +44 (0)1293 582005

Fax: +44 (0)1293 582006

info@dimension.co.uk

www.dimension.co.uk