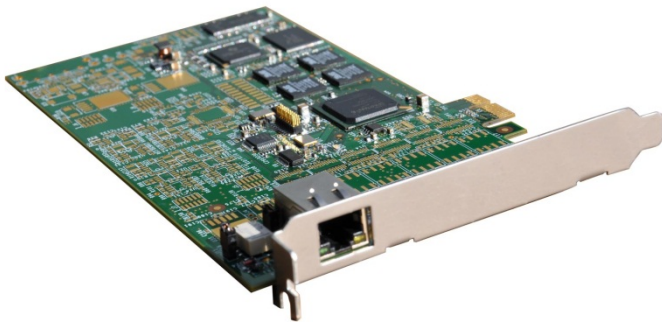


SOUND4

PRESS RELEASE

Apr 10, 2012, Lyon, France

SOUND4 will launch the 1st Multichannel WebRadio Processor and Streaming solution at NAB 2012 (booth #C2849 – French pavilion)



SOUND4 x8 card

Named « SOUND4 x8 », this product includes following functionalities:

- 8 independent channels and powerful Sound Processor
- Streaming engine that can deliver five different streams per channel (40 streams total)
- Hi quality level coding : MP3, AAC, HE-AAC, HE-AACv2...
- Predictive HQSound algorithm for sound unification with all codecs type
- Ready for all delivering standard (Darwin, Flash, Helix, Icecast, Shoutcast, Wonza...)
- Advanced metadata management
- Livewire* and RAVENNA® * compatible

A product dedicated to WebRadio bouquets...

The SOUND4 x8 is the 1st multi-channel processor dedicated to WebRadio bouquets. It can simultaneously and independently process 8 radio streams on a single PCI express card. The x8 offers 8 inputs and 8 outputs through Audio Driver (WDM/Direct Sound) and/or Livewire and Ravenna.

At last a product that handles encoding differences...

In terms of Sound Processing, the SOUND4 x8 includes a true processing chain dedicated to webstreaming : AGC + Tone FX + Stereo FX + 3-band Process + 4-Band Limiter + Brick Wall Limiter ! The SOUND4 x8 also features the « Predictive HQSound » algorithm which optimizes codec result and reduces compression-induced sound artifacts.

SOUND4 x8, a product designed for content delivery on all standards...

In terms of Encoding, the SOUND4 x8 offers a complete and innovative solution: each processed output may be encoded into up to 5 different stream formats (MP3, AAC, HE-AAC v1, HEAAC v2...). The SOUND4 x8 is the high quality encoding engine that suits every IP audio device profiles. Indeed it is the 1st processor that integrates a sound optimizer for very low encoding rates (16 kbps, 24 kbps, 32kbps...). Moreover, an Adaptive Processing can correct each stream independently in order to compensate the sound difference due to encoding (another SOUND4 innovation). Thus a radio station can easily generate different streams that suit the targeted audience, low rate for mobile phone, high rate for home device, with homogeneous sound whatever the encoder used. Finally, the SOUND4 x8 adapts to most of the standards used for streaming delivery systems (Flash, Darwin, Helix, Wonza, Icecast 2, Shoutcast...)

An advanced metadata management...

In terms of Meta-Data, the SOUND4 x8 is compatible with the different standard formats and can interface to many automation software thanks to a XML-based gateway (A2I, BE, BSI, Enco, Jazler, Netia, NextGen, RCS, Winamp, Winmedia, Zenon... **)

An extensible solution that reduces space needed for installation...

The SOUND4 x8 is based on a PCI express card: when it was previously possible to process only one radio on one PCI express slot, it is now possible to process eight radios. Thanks to this advantage, it is possible to install many cards in one server and then get easily 32 radios or more in one PC! Thereby, SOUND4 x8 reduces by eight the space needed in data centers, a good way to reduce cost!

A cost effective solution...

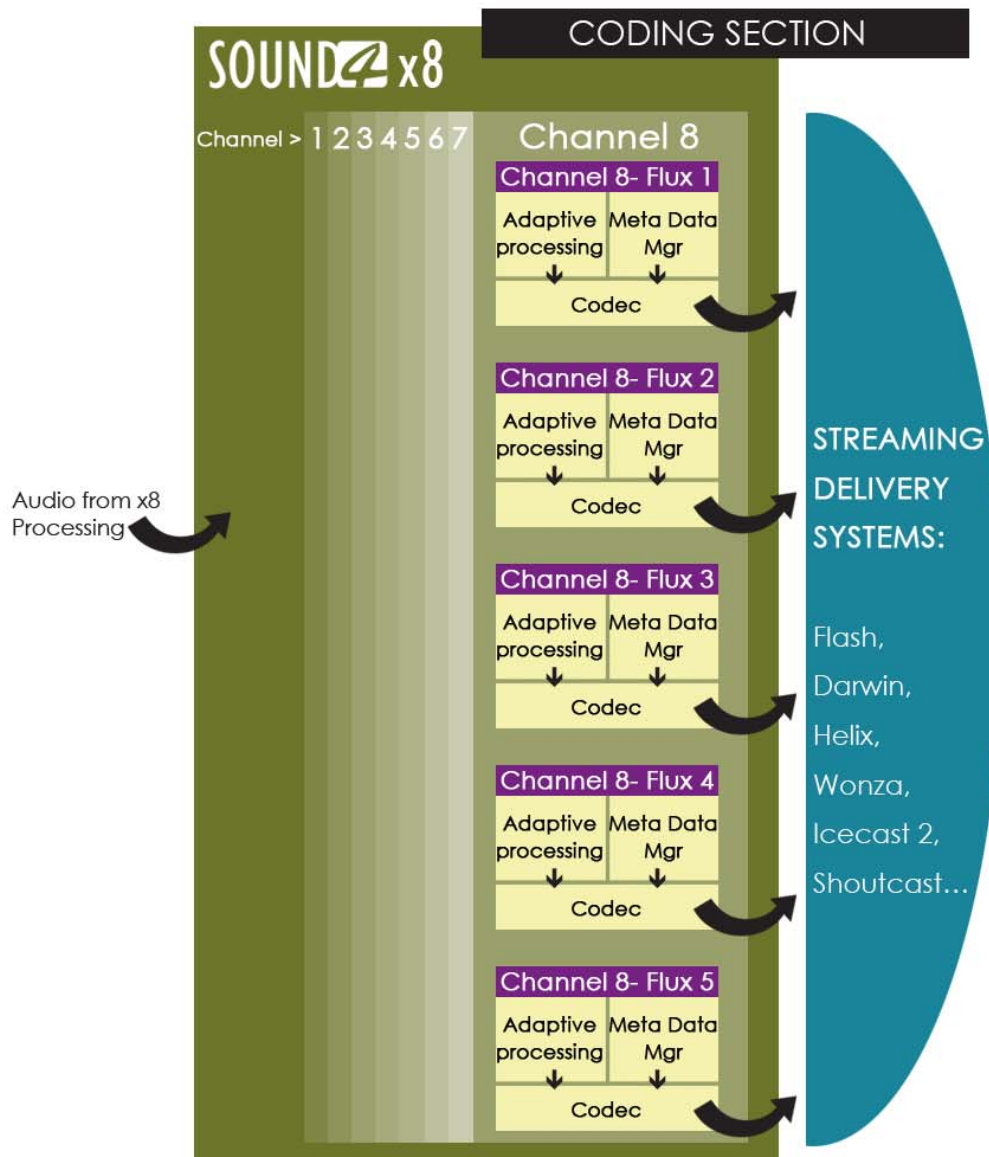
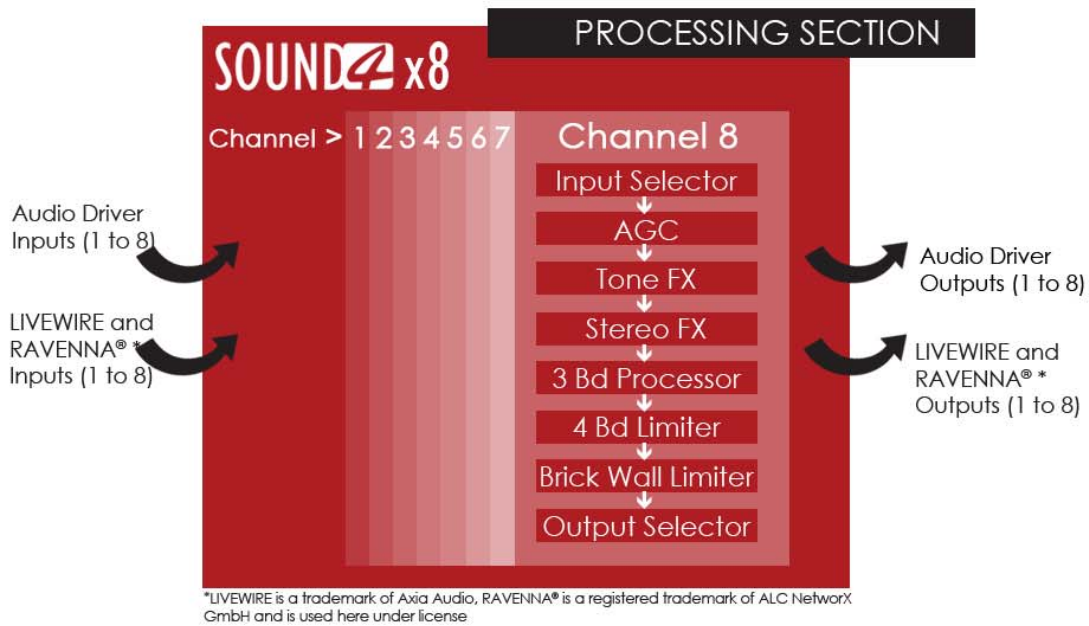
490 USD per channel ***an unbeatable price compared to all solution. For this price, users get a powerful processor that makes the difference, a complete encoding solution, a full compatible product with delivery servers with an advanced metadata management!

*LIVEWIRE is a registered trademark of Axia Audio, RAVENNA® is a registered trademark of ALC NetworX GmbH and is used here under license

**Brand names in this document are the property of named manufacturers

***(indicative price, prices can be different according to importation taxes)

How does the SOUND4 x8 work ?



How does the software look like ?

SOUND4 x8 L | 1 2 3 4 5 6 7 8 | IN | OUT

INPUT: [Level Meter] | PRESET: **Rock City v4** | CHANNEL: **8** | **Rock City Radio**

WORKSPACE: [PROCESSING] | STREAMING

WIDE BAND AGC (Gated)

- dB: -5.0
- GATE THRESHOLD (dB): -40.0
- WIDE AGC DRIVE (dB): 6.0
- WIDE AGC ATTACK (dB/s): 10
- WIDE AGC RELEASE (dB/s): 3.00

TONE FX (Mode: easy)

- FAT EQ: Freq: 60, Q: 3.160, Gain: 0.0
- LOW EQ: Freq: 80, Q: 3.570, Gain: 0.4
- MID EQ: Freq: 3000, Q: 2.500, Gain: 0.0
- HIGH EQ: Freq: 11000, Q: 2.500, Gain: 0.0
- BASS FX (dB): 6.2
- TREBLE FX (dB): 4.0

STEREO FX

- FX LIM: 66.0
- LIM: 22.9
- WIDTH (%): 40.0
- LIMITER (%): 15.0

3 BAND PROCESS (Smart Gate, Mode: easy)

Band	GATE THRESHOLD (dB)	FIDELITY (%)	SOUND IMPACT (dB)
HI	-40.0	15.0	2.8
M	-40.0	15.0	2.8
LO	-40.0	10.0	2.8
ALL	-40.0	13.3	2.8

Band	DRIVE (dB)	RATIO (%)	THRESHOLD (dB)	ATTACK (dB/s)	RELEASE (dB/s)
HI	3.1	55.0	0.0	160	5.00
M	3.1	61.0	0.0	160	7.00
LO	3.4	66.0	2.5	160	14.00
ALL	3.2	60.7	0.8	160	8.67

4 BAND LIMITER (Mode: easy)

Band	DRIVE (dB)	THRESHOLD (dB)	MIX (dB)	HI-END DRIVE (dB)	HI-END MIX (dB)
HE	-2.3	0.0	0.0	-0.9	1.0
H	0.0	0.0	0.0		
M	-6.0	0.0	0.0		
L	0.0	0.0	0.0		
ALL	3.0	0.4	0.3		

BRICK WALL LIMITER

- LIM: -5.5
- DRIVE (dB): -1.0

Host CPU/Memory 75% 65% | Audio Streaming CPU 42%

SOUND4 x8 L | 1 2 3 4 5 6 7 8 | IN | OUT

INPUT: [Level Meter] | PRESET: **Rock City v4** | CHANNEL: **8** | **Rock City Radio**

WORKSPACE: [PROCESSING] | **STREAMING**

General (Status: Running, Audio: OK)

- ENABLE: On
- SAMPLERATE: 44k1
- DEFAULT MONO/STEREO: Stereo
- DEFAULT PROTOCOL: IceCast2
- DEFAULT HOST: localhost
- DEFAULT PORT: 8087
- DEFAULT USER: source
- DEFAULT PASSWORD: *****
- DEFAULT PUBLIC: Off
- DEFAULT NAME: [Empty]
- DEFAULT DESCRIPTION: [Empty]
- DEFAULT GENRE: [Empty]
- DEFAULT URL: [Empty]

Metadata (Status: OK)

- MODE: File
- LOCATION: C:\Radio-Metadata\Z...
- SCRIPT: Multiroom Audio Player

EQ (Mode: full)

- FAT EQ (dB): 0.0
- LOW EQ (dB): 0.0
- MID EQ (dB): 0.0
- HIGH EQ (dB): 6.0
- FINAL GAIN (dB): -1.0

Stream (Status: Running, Encoder: OK, Streamer: OK, Connected: Connected)

- ENCODER: HE-AAC v2
- BITRATE (16-44 kbps): 24
- MONO/STEREO: Default
- PROTOCOL: Default
- HOST: Default
- PORT (0 for default): Default
- USER: source
- PASSWORD (empty for de...): [Empty]
- MOUNT: /rock.mp3-heaac-24
- PUBLIC: Default
- NAME: Default
- DESCRIPTION: Default
- GENRE: Default
- URL: Default

MP3 - 320 | MP3 - 128 | HE-AAC - 64 | HE-AAC v2 - 32 | [HE-AAC v2 - 24]

Host CPU/Memory 75% 65% | Audio Streaming CPU 42%

TO DOWNLOAD A PRINT QUALITY IMAGE OF:

- 1) The card:
http://resource.sound4.biz/COM/PR/SOUND4_x8_NAB2012/sound4_x8-card-hr.pdf
 - 2) The synoptic:
http://resource.sound4.biz/COM/PR/SOUND4_x8_NAB2012/sound4_x8_synoptic-processing_section.pdf
 - 3) The synoptic:
http://resource.sound4.biz/COM/PR/SOUND4_x8_NAB2012/sound4_x8_synoptic-coding_section.pdf
 - 4) The print screen "processing part":
http://resource.sound4.biz/COM/PR/SOUND4_x8_NAB2012/sound4_x8_software-processing_part.pdf
 - 5) The print screen "coding part":
http://resource.sound4.biz/COM/PR/SOUND4_x8_NAB2012/sound4_x8_software-streaming_part.pdf
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FOR MORE INFORMATION:

You can contact Vincent Defretin, Product and Project Manager by:

Mail: Vincent@sound4.biz

Phone: +33 413-415-540

And Vincent Defretin will be pleased to talk with you on booth #C2849

SOUND4- 93 rue Henri Barbusse 69310 Pierre Bénite- France

Phone: +33 (0) 413 415 540

Fax: +33 (0) 413 415 541

Web: www.sound4.biz

ABOUT SOUND4:

SOUND4 is a French Company based in Lyon, launched in 2007. SOUND4 has designed an innovative range of audio processing HD/FM, a range of multi-channel Voice processing**, and a range of Audio streaming over IP solution. SOUND4 philosophy is to propose real multifunction products, that's the reason why SOUND4 products are based on some powerful PCI express architectures allowing the integration of several products in the same hardware (HD/FM processing, audio back up, streaming, RDS, Audio IP) to reduce cost investments (up to 70% compared to traditional solution), gain in reliability and flexibility. SOUND4 Products are in the "green way" because they save power consumption, space and reduce heat emission... Today SOUND4 has already sold up to six hundred products and is considered as the new challenger in its domain.*

*patented technology

** awarded Innovation Trophy