



SAS220 AUDIO ENCODER

Professional audio streaming over internet

The SAS220 is Streamit's professional IP-audio encoder/streamer. This makes it easy to stream live events such as meetings, conferences, classes and other such live events to the internet.

The SAS220 ideal for clubs, schools, universities, local radio stations, conference centers and churches that want to be present on the internet with a high quality audio stream but do not want to be confused by a complicated operation.

The SAS220 is equipped with XLR inputs and a headphone output for signal monitoring. The analog audio is encoded in Ogg Vorbis or MP3 format. This delivers excellent audio quality and requires little bandwidth (a standard ADSL connection is normally sufficient). After encoding the SAS220 sends the Ogg Vorbis or MP3 stream to another audio device or an external Icecast streaming server for further distribution. From there it can be received with the Lukas II, any of the SIR series internet radio receivers or on a PC.

Through the intuitive web interface, provided via Streamit's Device portal, the SAS220 can be configured from anywhere. While streaming, the SAS220 gives clear feedback on its display with digital VU meters and status information on streaming.

Designed to work autonomously, the SAS220 functions without a PC. It recovers automatically after power or network failures, making it an excellent and reliable network device.

- **Live audio streaming over internet**
- **Point-to-point streaming**
- **Point-to-multi-point streaming**
- **Streaming to Icecast**
- **Ogg Vorbis and MP3 encoding**
- **XLR inputs**
- **Easy configuration and control**
- **Headphone output for signal monitoring**
- **Suitable for 19" rack mounting**



TECHNICAL INFORMATION

ORDER INFORMATION

Type number Europe
Type number US / Canada
Type number UK
Type number Australia

SAS220

SAS220 - EU
SAS220 - US
SAS220 - UK
SAS220 - AU

INCLUDED IN DELIVERY

SAS220 audio streamer
Powersupply 12 Vdc with screw jack
Ethernet cable RJ45 3m
USB programming cable
Quick start manual

SIZE AND WEIGHTS

Sizes (b x d x h mm)	220 x 125 x 45
Size of packaging (b x d x h mm)	310 x 220 x 100
Weight (g)	800
Total weight in packaging (g)	1300

SPECIFICATIONS

SAS220	
Stereo encoder	Ogg Vorbis, MP3
Samplefrequency (max. kHz)	48
Bitrate (stereo, max. kbps)	256
Ethernet controller	10 Mbps
Audio input impedance	> 20 kOhms (balanced)
Common mode rejection ratio	> 50 dB
Inputlevel (nominal, clipping)	6 / 15 dBu
LCD-display	662 x 15 mm, 2 x 16 characters, 5 x 8 dots
LCD-display with backlight / color	yes/blue
Languages	English
Real-time clock	yes
Firmware upgrade on-line	yes
Compatible with Icecast / Shoutcast	yes / no
Poweradapter	100 - 240 VAC / 12 Vdc - 500mA
Power consumption	
- standby (typical W)	2
- operation (typical W)	3
Streaming clients	2 (max)

INPUTS

Ethernet 10 Base-T	RJ45
Power in 12 Vdc	Screw-jack
Service-connector in/out	USB-A
Remote control	yes
RS232	No
Balanced inputs	2x XLR female

OUTPUTS

Stereo lineoutput / headphone	6,3 mm
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TEMPERATURE RANGE

Operation (°C)	+10 to +35
Storage packed (°C)	-25 to +50
Storage unpacked (°C)	0 to +45

ACCESSORIES

19"-rack mounting kit	MK (optional)
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SERVICE COMPONENTS

Power adapter (Europe)	SPS/EU
Power adapter (USA / Canada)	SPS/US
Power adapter (UK)	SPS/UK
Power adapter (Australia)	SPS/AU

SIGNAL SPECIFICATION OF COMPLETE SOLUTION

Amplitude response	< +/- 1 dB, from 20 Hz - 20 kHz
Total harmonic distortion	< 0,15%
Total intermodulation distortion	< 0,15%
Signal to noise ratio	> 75 dB relative to 0 dBFS (Unweighted)
Left/right channel level difference	< 1 dB, from 20 Hz - 20 kHz
Left/right channel phase difference	< 5 °, from 20 Hz - 20 kHz
Left/right channel separation	> 70 dB, from 20 Hz - 20 kHz stereo mode
Audio level non-linearity	< 0.4dB, from 20 Hz - 20 kHz @ -40dBos
Signal to hum ratio	> 80 dB, RMS from 20 Hz - 1 kHz @ 0 dBFS
Minimum delay @ 128 / 64 / 16 kbps	0,7 / 1,5 / 3,2 s

ABOUT STREAMIT

Streamit is a Dutch company specialized in the development and marketing of transmitter and receiver equipment for audio and video streaming over the internet. We develop our products for niche markets where quality and specific requirements can not be met by standard consumer solutions. Our products and solutions are being used worldwide.

Streamit B.V.

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