



# NEW SIP STUDIO CODEC BY AAS :

# Your audience will listen to your radio as never before !

# NEW

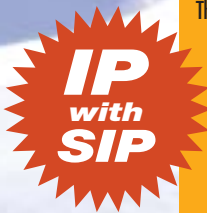
## Stereo Studio Codec for High Quality Audio Transmission

### MORE HIGHLIGHTS

- Compact 1U design (size 480x44x252 mm), silent and low consumption (no fans)
- Compatible with SIP phones
- Dual mono codec mode available for 2 independent links over leased lines or ISDN
- Full remote control and supervision
- 5AS™ for easy connections over ISDN
- Auxiliary data channel and relay transmission
- Optional voice coordination channel

### APPLICATIONS

- Contribution links via:
  - IP connections, via public or private networks (LAN, WAN...)
  - Inmarsat BGAN service
  - ISDN lines
- Distribution of audio programmes from studio to transmitters, using leased lines or IP connections
- Live broadcasts from OB vans



**Why the SIP protocol is a benefit.**  
 The SIP protocol is a standard developed for VoIP applications and supported by telecommunications companies and many professional associations. SIP solves problems of compatibility and interoperation while proprietary systems leave you tied to one brand. Using AETA Audio Systems SIP codecs, you choose freedom and look at the future.



- *Audio transmission via Leased Lines, Ethernet/IP, ISDN*
- *Broadest choice of compression algorithms, including 4SB ADPCM, and ready for AAC*
- *Broadcast quality audio, telecom grade reliability*
- *New low power platform on a Linux architecture*



AETA AUDIO SYSTEMS

*We stay ahead to keep the best*

# TECHNICAL FEATURES

## AUDIO

### Analogue

- Symmetrical, max level adjustable 0 to +22 dBu
- Input impedance 600  $\Omega$  or 10 k $\Omega$
- Output impedance < 100  $\Omega$
- XLR sockets (2 female in, 2 male out)

### Digital

- AES/EBU format
- Sampling rate 32 kHz, 48 kHz, or synchronised to input (Genlock mode)
- XLR sockets (1 female in, 1 male out)

### Performance<sup>1</sup>

- Bandwidth 20 – 20 000 Hz (FS 48 kHz)
- THD + N < -80 dB (0.01%)
- Channel separation > 80 dB

## TRANSMISSION INTERFACES

### Leased Lines

- Two X24/X21/V11/V35 interfaces
- Bit rate 64 to 384 kbit/s

### Ethernet

- 100BaseT / 10BaseT (auto negotiation), DHCP client (or static setup)
- SIP protocol, involving SDP, RTP, RTCP, UDP and other IETF standards

### ISDN

- 1 or 2 BRI, S0 or U0
- Bit rate 64 to 256 kbit/s

## ALGORITHMS

### Phone quality: G711

### Extended bandwidth voice

- G722 (SRT/H221/H242)
- CELP (7 kHz voice, 24 kbit/s)

### Low delay: 4SB ADPCM

- Latency time < 10 ms, 15 kHz bandwidth
- Mono or stereo, 128 kbit/s per audio channel

### MPEG Layer II and III

- 64 to 384 kbit/s
- Sampling rate 48 kHz, 32 kHz, 24 kHz, 16 kHz
- J52 available

### Ready for MPEG AAC

<sup>1</sup>Over the full 20-20 000 Hz bandwidth, unless otherwise specified

## AUXILIARY FUNCTIONS

### Auxiliary functions

- Embedded in encoded audio stream
- No additional network resources needed
- Exact capabilities depend on audio coding algorithm used

### Data channel

- RS232 interface, 300 to 19200 bauds

### "Relay transmission"

- Transmission of digital I/O : 8 inputs, 8 outputs
- Including 2 isolated I/O

### Audio coordination channel (optional)

- Voice grade
- 8 kbit/s only

## OPERATIONAL INFORMATION

### User interface

- Keypad and backlit LCD
- Alarm and status indicators
- Audio level monitoring for inputs and outputs
- Headphone monitoring connection on front panel

### Control and supervision

- 50 programmable configuration/dialling profiles
- Remote control via Ethernet/IP or RS232 interface
- Embedded html server
- 5AS for automatic detection and setup on receiving ISDN calls

### General

- Dimensions (W x H x D) 480 x 44 x 252 mm (18.9"x 1.73"x 9.9")
- Weight 3.2 kg (7 lb)
- Power supply AC 85-263 V
- Temperature range: 0° to 45°C

## VERSIONS AND OPTIONS

### Versions

- IP and leased line interfaces
- IP, leased line, 1 ISDN BRI (TBA)
- IP, leased line, 2 ISDN BRI (TBA)

### Options and accessories

- Audio coordination channel
- DC powering 12V



Scoop4+

**Stereo Studio  
Codec for High Quality  
Audio Transmission**

votre revendeur

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