

HIFIScoop 3

AudioCodec



- MPEG Layer II, Layer III, G.722 and ADPCM
- ITU-T J52-compliant algorithm
- 2, 4 and 6B channel operation
- Mono, stereo, joint stereo and dual mono modes
- Full duplex operation
- AES/EBU option
- Auxiliary data channel
- Bit rates up to 384 kbps
- Remote supervision software available
- Universal power supply
- 19" rackmount



The AETA Audio HIFIScoop 3 ISDN audio codec is designed to deliver 20kHz stereo CD quality audio over ISDN lines. The unit offers a wide range of standard compression algorithms, including the low-delay ADPCM. Additionally, the HIFIScoop 3 features the ITU-T J52-compliant algorithm, which automatically renegotiates different algorithms from one location to another, ensuring stable, error-free connections. The unit is available in 2, 4 or 6B channel configurations and delivers full duplex operation in mono, stereo, joint stereo and dual mono channel modes. Easy to interface and use, the HIFIScoop 3 is arguably the most versatile ISDN audio codec on the market.



Linking Innovation With Clarity

Technical Specifications

Audio

- **Full Duplex**
- **Audio Interfaces**
 - **Analog**
 - Symmetrical, transformer isolated
 - Maximum level: 21 dBu/dBm
 - Input impedance: 600 Ω or 10 k Ω
 - Output impedance: <100 Ω
 - **Digital**
 - AES/EBU format
 - Impedance: 110 Ω
 - Sampling frequency: 32, 48 KHz or synchronized on AES input
- **Headphone**
 - 1/4" jack, adjustable output, 25 Ω
- **Audio Performances**
 - **Bandwidth**
 - From 20 Hz to 7 kHz (FS=16 kHz) (FS=24 kHz), 15 kHz (FS=32 kHz), 20 kHz (FS=48 kHz)
 - **THD + N < -80dB (0.01%)**^{1 2 3}
 - **Stereo**
 - Channel separation > 80 dB¹
 - Gain difference < 0.3 dB¹
 - Phase difference < 3°¹

Notes: 1 over the full 20 Hz to 20 kHz bandwidth
 2 direct connection from the A/D-D/A converter
 3 input/output 1 dB below clipping level

Operational Information

- **Dialing**
 - Built-in keypad
 - Automatic answering
- **User Interface**
 - Backlit LCD display: 2 x 16 characters
 - Dust/breakage-free Lexan® keypad
- **LEDs**
 - Audio input level, 18 LEDs for: 0 to -27 db (referenced to the clipping level = 16 dBu)
 - Int voltage alarm: 12v & 5v
 - Ext test alarm
 - Ext clock alarm
- **Network interface**
 - ISDN: U, S/T single basic rate interface (RJ45)
 - V24 (sub D-9)
- **General**
 - Loopback mode for network testing
 - Universal power supply: 85 to 260 VAC
 - Dimensions: 3.75 x 19 x 12.5 in. (H x W x D)
 - Weight: < 13 lbs
 - Operating temp range: 32°F to 113°F 95% humidity

Specifications and features are subject to change without notice.



What is J52?

Normally, if a field codec attempts to communicate via MPEG Layer II with a station codec set for Layer III, the algorithms are incompatible and there will be no connection. However, thanks to J52 - a mode that only AETA Audio includes as standard on all of its products - the station codec set for Layer III will recognize the incoming algorithm and automatically default back to Layer II operation in order to communicate. The beauty of J52 is that it requires absolutely no operator intervention. No longer do you have to manually change the algorithm, and never again will you miss an incoming signal because of an incompatibility.

Coding	Channel mode	Coding frequency Fc	Bandwidth	Bit rate	FEC mode	Data channel	Auxiliary Audio
G722 H221	M	16	7	64k	—	300-4800	—
G722 H221	DM	16	7	2x64k	—	300-4800	—
G722 SRT	M	16	7	64k	—	—	—
G722 SRT	DM	16	7	2x64k	—	—	—
4SB ADPCM	M	32	15	28K	—	300-4800	X
4SB ADPCM	S	32	15	256K	—	300-4800	X
MPEG Layer II	M	16	7 to 20	64k	0 to 3	300-9600	X
	DM	24	depending on Fc	128k			
	S	32		192k			
	JS	48		256k			
				320k			
				348k			
MPEG Layer III	M	32	15 to 20	64k	0,2,3	300-9600	X
	DM	48	depending on Fc	128k			
	S						
	JS						
TDAC	M	32	15	64k	—	300	—



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