



Spider

ISDN audio codec

PRELIMINARY



- 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
- Full duplex operation
- AES/EBU option
- 19" rackmount – 2U
- Auxiliary data channel
- Remote control software available
- Universal power supply



GENERAL DESCRIPTION

Spider 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, Spider 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 Spider is arguably the most versatile ISDN audio codec on the market.

J52 coding advantages

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 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


GENERAL FEATURES

Weight	5,2 Kg
Dimensions	2 U of 19" frame (320 mm Depth)
Power supply	85 to 260 VAC, 47 to 440 Hz 25W
ISDN Network Interfaces	U, S/T single basic rate interface (RJ45)
V24 (subD 9) Network Interfaces	
Dialling	built-in keypad: 99 stored numbers, last redial / aut. answering / Tel mode
Operational audio mode	Full duplex

ANALOG AUDIO INPUT / OUTPUT

Connector Type	XLR transformer balanced
Max Input Level	21 dBu/dBm
Input Imped.	600 Ohm or 10 kOhm
Out. Impedance	< 100 Ohms

DIGITAL AUDIO INPUT

Connector Type	XLR
Formats	AES3/EBU.
Sampling Rates	32KHz/48KHz (or synch. on input)

AUDIO PERFORMANCE

Bandwidth	From 20 Hz to 20 kHz (Fs = 48 kHz)
THD + N	< 80 dB (0.01%)
Stereo separation	> 80 dB

CODING METHODS

Coding	Ch. mode	Samp.freq.	Bandwidth	Bit rate	FEC mode	Data channel	Auxillary 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	7 to 20	128k			
	S	32	7 to 20	192k			
	JS	48	7 to 20	256k			
				320k			
				348k			
MPEG Layer III	M	32	15 to 20	64k	0,2,3	300-9600	x
	DM	48	15 to 20	128k			
	S		15 to 20				
	JS		15 to 20				
TDAC	M	32	15	64k	-	300	-

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