

270 Mb/s SDI **Digital Audio Extractor** Type DAX-3206

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N140

Features:Standard 75 Ω 270 Mbit/s video input	Ø DAX-3206 €
 Standard 75 Ω 270 Mbit/s video output 	
Extracts embedded audio	
(Supports 48 kHz Synchronous and Asynchronous level A & D audio packet decoding)	AUDIO
Supports 525 & 625 line standards	
Indicators / external alarms for loss of carrier & audio	AES GROUP
Automatic input equaliser to 250 m	2 3
Four high quality analogue audio outputs	
• Two 110 Ω balanced or 75 Ω unbalanced AES outputs	PREOFF
IRT Eurocard format	DC 🔵

General:

The DAX-3206 is a high performance embedded audio extractor for 270 Mbit SDI video signals. It is primarily designed to operate with IRT's DAI-3206 digital audio inserter but will work on any embedded SDI source.

A typical SDI signal may contain up to eight audio pairs arranged in four groups. Each DAX-3206 is capable of extracting one audio group (2 AES / 4 analogue) from those available. Selection is made via a front panel local control switch.

The DAX-3206 supports AES/EBU synchronous and asynchronous audio at 48 kHz, 20-bit audio data packets.

Both analogue and digital audio outputs are provided so that the one module may be used for all applications in monitoring and processing.

The use of digital audio filtering and 20-bit digital to analogue converters produce studio quality analogue audio and the AES/EBU digital interface allows digital interconnection in either balanced or unbalanced formats.

An audio presence indicator is provided for each group output. If no audio is detected the corresponding output is muted.

The DAX-3206 complements the DVC-4112 SDI to analogue video converter for full conversion of SDI signals to analogue video and audio.

The DAX-3206 comes configured standard with 110 Ω balanced AES/EBU outputs. 75 Ω unbalanced outputs are available by insertion of links on the rear assembly.

The DAX-3206 is fabricated in IRT's standard Eurocard format and may be housed in a variety of IRT Eurocard frames alongside other standard modules.

DAX-3206 Technical Specifications

SDI input:			
Number	1 (BNC).		
Impedance	75Ω terminated.		
Equalisation	Automatic for cables lengths <250 m (Belden 8281).	Alarms	
Format	270 Mbit/s video with embedded audio serial data to		
1 official	SMPTE 272M-A & D.		
	Sin TE 2720 TO D.		
SDI output:		(o)	
Number	1 (BNC).	\bigvee \bigtriangledown	
Impedance	75Ω terminated.	SDIOUT (O)	
Format	270 Mbit/s video with embedded audio serial data to		
	SMPTE 272M-A & D.	SDI IN	
Analogue outputs:			
Number	4 (1 Group).		
Impedance (balanced)	<60 Ω.	G P G F G G	
Output Level	+24 dBu at Full Scale.		
SNR unweighted	90 dBFS.	9 + 0 RIGH	
Frequency response	0.5 dB (20 Hz to 20 kHz).		
THD	0.05 % (20 Hz to 20 kHz).	▏ ┻ ─┘ ╡ ⋛ ┻ ─┘	
IMD	0.05 % SMPTE at +4 dBu.		
Crosstalk between channels	95 dB.	AES 1	
At unity gain, 20 Hz to 20 kHz and relative to $+24$ dBu.			
AES/EBU outputs:			
Number	2 (1 group).	G	
Balanced outputs:	2 (1 group).		
Output impedance	110 Ω balanced.		
Sulput impedance	$3.5 V \pm 1 V_{p-p}$.		
Rise and fall times	10 ns typical.	AES 2	
Data jitter	$<\pm 20$ ns.	OUT	
, , , , , , , , , , , , , , , , , , ,	<u> </u>	AES BAL/UNBAL O/P	
Balanced outputs: (when configured) O			
Output impedance	75 Ω unbalanced		
Signal amplitude	$1 V_{p-p} \pm 20\%$.		
Data jitter	<± 20 ns.		
Alarms:	Contact closure on loss of SDI input, or loss of power.		
Other:			
Power requirements	28 Vac CT (14-0-14) or ± 16 Vdc.		
Power consumption	<7 VA.		
Temperature range	0 - 50° C ambient.		
Connectors	Phoenix plug-in terminal blocks unless otherwise noted.		
Mechanical	Suitable for mounting in IRT 19" rack chassis with in	put output and power	
	connections on the rear panel.		
Finish: Front panel	Grey background, silk-screened black lettering & red IRT lo	ogo.	
Rear assembly	Detachable silk-screened PCB with direct mount connect	ctors to Eurocard and	
	external signals.		
Dimensions	30 mm x 3 U x 220 mm IRT Eurocard.		
Accessories supplied with module Rear connector assembly including matching connectors for audio, alarms an		for audio, alarms and	
	controls.		
Optional accessories	TME-6 module extender card.		

Due to our policy of continuing development, these specifications are subject to change without notice.

	Detailed specifications ava	ailable from:
	Local Agent:	IRT can be found on the Internet at:
td	-	http://www.irtelectronics.com

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