C DA 3220 D

Dual AES to Analog Audio Converter

SERIES 3000

MiniModules

CONVERSION

Description

The C DA 3320 D is a dual channel audio D/A converter designed primarily for broadcast and professional applications. The module accepts two balanced AES3 digital inputs with conversion to balanced analog audio signals. Transformer coupled (isolated) AES inputs with 24 bit conversion at 32KHz, 44.1KHz, 48KHz or 96KHz sampling rates (auto detect). Adjustable full scale ranging and gain levels for each channel. The module has a built in micro-controller with local controls, status and alarm indicators and well as internal flash ram for storing setups. Remote control and status monitoring is possible when used with a controller option and LYNX control software.

Key Features

2 channels of AES D/A conversion (24 bit)

Balanced AES3 transformer coupled inputs with balanced analog audio outputs

Automatic detection of sample rate (32KHz, 44.1KHz, 48KHz, 96KHz)

Adjustable 0dB full-scale level presets of 12dBu, 15dBu, 18dBu or 24dBu

Analog outputs with adjustable gain +/- 3dB from 0dB full-scale level.

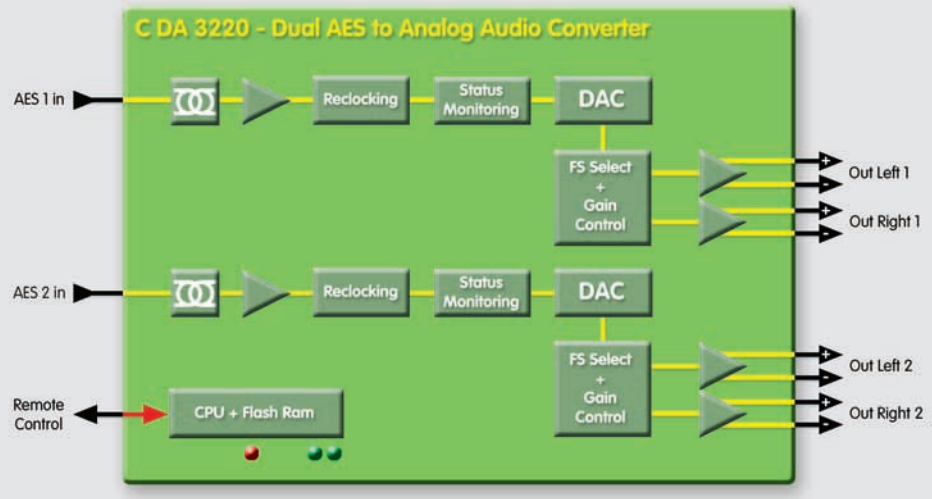
Input presence detection

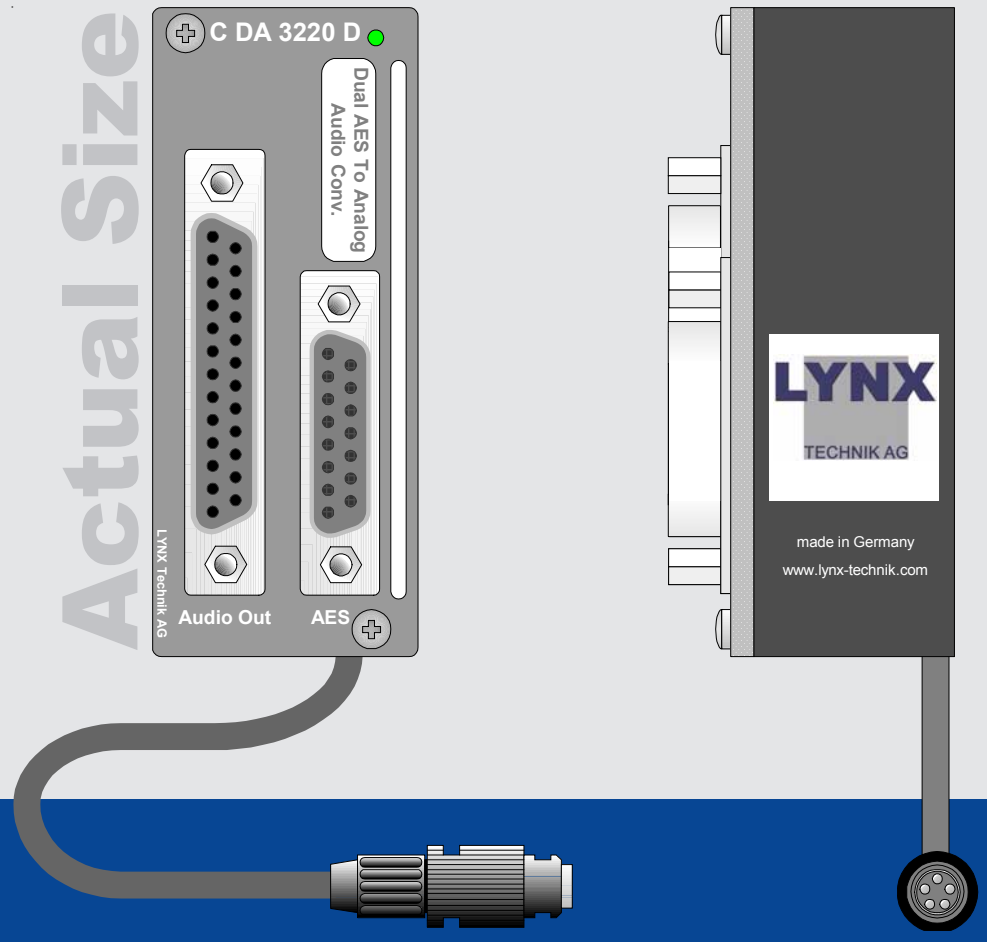
Local DIP-switches and LED's for control and status monitoring.

Microprocessor controlled.

Internal flash ram for storing module settings

Remote control interface.





LYNX TECHNIK AG

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This module is part of the 3000 series of MiniModules, which offer high quality and flexibility in a very small form factor ideal for applications where space is at a premium. The modules can be used either stand alone using the optional power supply brick or as part of a tightly integrated space saving system where up to 10 MiniModules can be mounted using the optional R FR 3005 rack frame, with optional expansion for redundant power and remote control using one of the LYNX controllers and control software.

Specifications

Audio Inputs

Analog Inputs	2 x Balanced AES3 input signals through isolation transformers
Impedance	110 Ohm
Connection type	Sub D 15 pin female
Level	4 V
Return Loss	> 15dB (32 KHz - 100KHz)

Analog Outputs

Signal	2 x balanced stereo outputs (one output per channel)
Connection	Sub D 25 pin female
Impedance	< 50 Ohm
Max Level	24 dBu into 10 KOhms
0dB FS level	Selectable (12dBu, 15dBu, 18dBu or 24dBu)
Gain	Adjustable +/- 3dB from selected 0dB FS level

Performance

Sampling	Auto detection (32KHz, 44KHz, 48KHz or 96 KHz)
Quantisation	24 bits
Noise Floor	< -90 dBu (A-weighted)
Distortion	< 0.002% (20 Hz to 20 KHz)
Frequency Response	+\- 0.2dB (20 Hz to 20 KHz)
Crosstalk	< -90dB (20 Hz to 20 KHz)

Electrical Specifications

Operating Voltage	+ 5VDC
Power Consumption	2.5 VA
Connection	DC input via 5 pin locking bayonet connector
Safety	IEC 950/ EN 60950/VDE 0805/UL1950

Mechanical

Size	85.5mm x 35.3mm x 27 mm + connectors
Weight	150g

Ambient

Temperature	5°C to 35°C Maintaining specifications-20°C to +70°C storage
Humidity	Max 80% non condensing

Options

Power Supply Options

R PS 3001 E	External power brick - wall plug style. (Europe)
R PS 3001 U	External power brick - wall plug style (USA)
R PS 3001-3	In-line power supply - suitable for all regions
R PS 3004	In-line supply for 4 MiniModules - suitable for all regions

Mounting Solutions

R FR 3000	Wall mounting brackets for individual MiniModules (5 sets)
R FR 3004	Wall mount for 4 MiniModules
R FR 3005	19" rear rack mount plate for 10 MiniModules
R FR 3010	Central power supply and control chassis
R PS 5010	Redundant power supply for R FR 3010

Adapter Cables

R PS C 15	DC power and control extension cable (1.5m)
R PS C 25	DC Power and control extension cable (2.5m)
R AC M25-8	SubD 25 > 8 x male XLR audio adapter cable (1m)
R AC MF15-4	SubD 15 > 2 x male XLR and 2 x female XLR (1m)

Controllers

R CT 3000	Service Adapter and control software for single modules
R CT 5020	Rack Controller and control software
R CT 5010	Rack Bus Expander
R CT 5030	Master Controller

Note.
Local dip switches allow for basic set up and configuration, which is suitable for most applications. Access to extended feature set s requires the use of a controller option or the RCT 3000 Service Adaptor and control software.

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