

C DA 5220 D / BS

SERIES 5000

CardModules

Dual AES to Analog Audio Converter

Description

Featuring dual channel capability with 24-bit conversion and up to 96KHz sample rates, the C DA 5220 represents an extremely simple and cost effective way to convert 2 AES streams (2 stereo pairs) into high quality analog audio signals suitable for professional and broadcast applications.

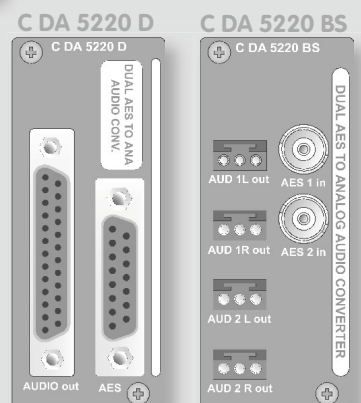
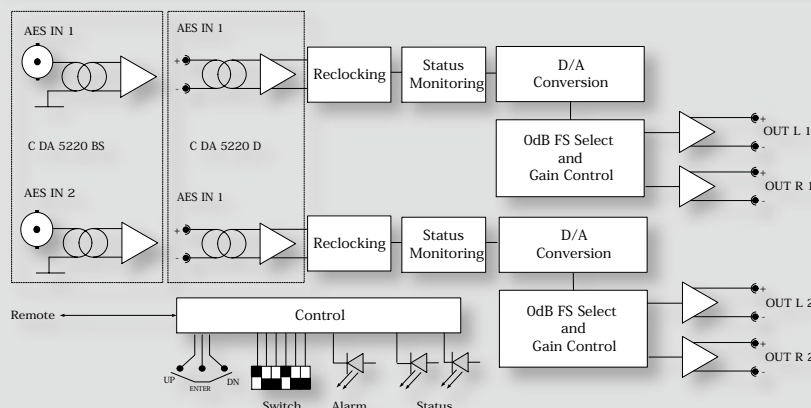
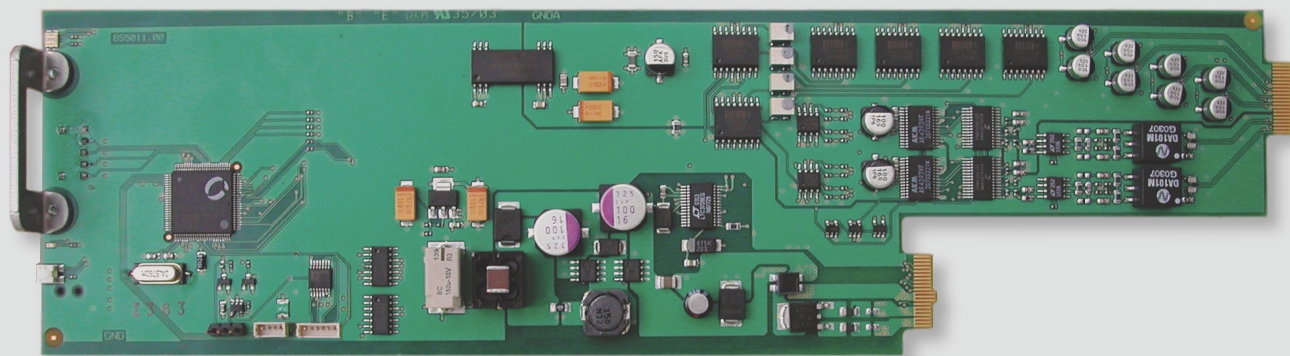
Automatic sample rate detection and adjustable analog output gain provides maximum flexibility for interfacing between digital and analog audio equipment. Multiple backplane configurations provide two choices for system connectivity.

Microprocessor control and on board flash ram enable configurations and settings to be stored within the module (through power cycles and module removal). Local control

capability is provided via the integrated dip switch and multifunction switch. Remote control, status monitoring and error reporting is possible when using the LYNX control system.

Features

- 2 separate channels of AES D/A Conversion
- Transformer coupled inputs
- Automatic detection of AES sample rates 32 KHz, 44.1 KHz, 48 KHz and 96 KHz
- High quality 24 bit conversion
- Analog audio outputs with adjustable gain +/- 3dB from 0dB full scale setting
- Full scale range presets of 12dBu, 15dBu, 18dBu and 24dBu
- Balanced analog audio outputs
- Input presence detection
- Choice of two backplane options
- Microprocessor controlled with internal flash ram for storing configuration
- Remote control, status monitoring and error reporting possible when used with LYNX control system
- Full SNMP support when used with master controller option
- Hot swappable



Backplane Options

C DA 5220

CONVERSION

Conversion

Dual AES to Analog Audio Converter

Specifications

AES Audio Inputs	
Signal Type	D version. Digital balanced AES3 inputs BS version. Digital unbalanced single ended AES3id inputs
Input coupling	Transformer coupled
Sample Rate Detection	Automatic. 32KHz, 44.1KHz, 48KHz and 96KHz
No. Of inputs	2
Connector	D version. 15pin female Sub D connector BS version. BNC connector
Input Impedance	D version. 110 Ohm BS versions. 75 Ohm
Return Loss	>15 dB (32KHz - 100KHz)
Analog Audio Outputs	
No. Of Outputs	4 (one stereo pair per AES input)
Signal Type	Balanced analog audio
Connector	D version. Female 25pin Sub D connector (Tascam pinout) BS version. Weco individual screw terminal connections
Output Impedance	50 Ohms
0dB full scale range	Selectable. 12dBu, 15dBu, 18dBu and 24dBu
Analog gain adjustment	Adjustable +/- 3dB from selected 0dB level in 0.5dB steps
Performance	
Quantization	24 bits
Sampling	32KHz, 44.1KHz, 48KHz and 96KHz - Automatic detection
Noise floor	< -90dBu ("A" weighted)
Distortion	< 0.002% (20Hz to 20KHz)
Frequency Response	+/- 0.2dB (20Hz to 20KHz) @ 48KHz sample rate
Crosstalk	< -90dBu (20Hz to 20KHz)
Electrical Specifications	
Operating Voltage	12 VDC
Power Consumption	< 3.5W
Safety	IEC 60950/ EN 60950/ VDE 0805
Mechanical	
Size	283mm x 78mm
Weight	CardModule 120g, connector plate 50g
Ambient	
Temperature	5°C to 40°C Maintaining specifications
Humidity	90% Max non condensing

Specifications subject to change

Settings and Control

Local Settings	
0dB full Scale range	Select between 12dBu / 15dBu / 18dBu / 24dBu
Unity Gain Select	Set unity for selected channel / normal operation
Output Gain Adjustment	Adjust gain UP/DOWN
Channel Select	Select channel 1 or channel 2 for adjustment
Settings Available from Control System	
All local settings replicated with control system GUI. No additional control provided	

On Board Indicators / LEDs

Channel 1. AES OK / AES Parity Error / AES input missing
Channel 2. AES OK / AES Parity Error / AES input missing
General Alarm Indicator – 3 Color

Ordering Information

Model #	Part Number	Description	Includes
C DA 5220 D	6155009250	Dual AES to Analog Audio Converter (Sub D)	CardModule, Rear termination Panel, + Mounting Screws, and Reference Manual
C DA 5220 BS	6155009240	Dual AES to Analog Audio Converter (Weco and BNC)	CardModule, Rear termination Panel, + Mounting Screws, 4 x female Weco connectors and Reference Manual