

C AD 5320 D / SB

SERIES 5000

CardModules

Dual Analog Stereo to AES Converter

Description

Featuring dual channel capability with 24-bit conversion and up to 96KHz sample rates, the C DA 5320 is a compact and cost effective way to convert 2 stereo analog pairs into digital AES/EBU audio signals. Designed for professional and broadcast applications demanding the highest levels of quality.

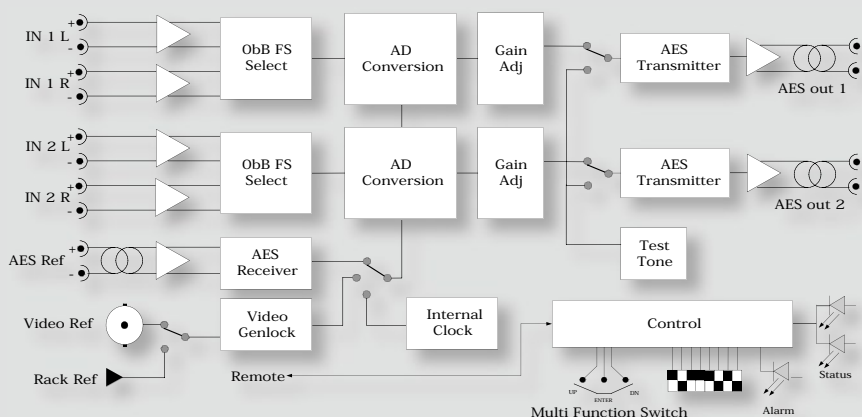
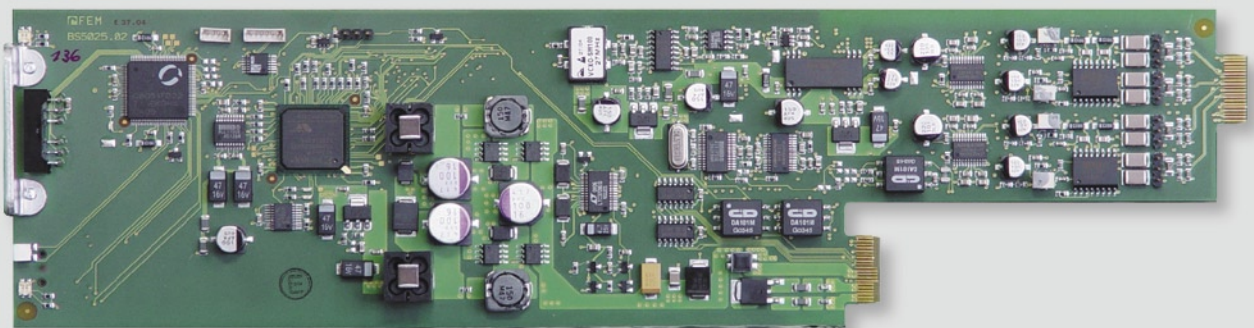
Selectable sample rates (32,44.1,48 and 96KHz) with adjustable gain and an integrated tone generator provides maximum flexibility for interfacing between analog and digital audio equipment. Multiple backplane configurations provides two choices for system connectivity.

Microprocessor control and on board flash ram enable configurations and settings to be stored within the module

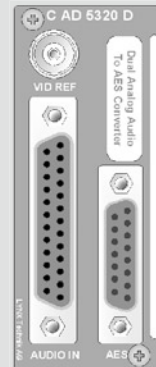
(through power cycles and module removal). Local control capability is provided via the integrated matrix display and multifunction switch. Remote control, status monitoring and error reporting is possible when using the LYNX control system.

Features

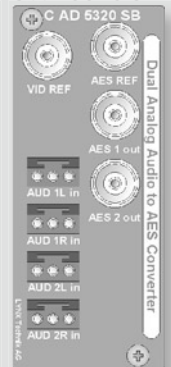
- 2 separate channels of audio A/D conversion.
- Balanced analog audio inputs
- High quality 24 bit conversion.
- Selectable sample rates 32 KHz, 44.1 KHz, 48 KHz and 96 KHz
- Transformer coupled AES outputs
- Adjustable gain +/- 3dB from 0dB full scale setting.
- Full scale range presets of 12,15,18,21 and 24dBu.
- Integrated test tone generator.
- External AES reference, video reference or internal clock.
- Input presence detection
- Choice of two backplane options.
- Microprocessor controlled with internal flash ram for storing configuration.
- Integrated matrix display with menu system for local setup and 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.



C AD 5320 D



C AD 5320 SB



Backplane Options

C AD 5320

CONVERSION

conversion

Dual Analog Stereo to AES Converter

Specifications

Analog Audio Inputs

Signal Type	Balanced analog audio
No. Of inputs	2 Stereo pairs
Connector	D version. 25 pin female Sub D connector SB version. Weco single jack connectors
Input Impedance	15 K Ohms
Max input level	24 dBu
Odb full scale ranging	Selectable. 12dBu, 15dBu, 18dBu, 21dBu and 24dBu

AES Audio Outputs

Signal Type	D version. Balanced AES3 digital audio SB version. Unbalanced AES3id digital audio
No. Of outputs	2
Connector	D version. Female 15pin Sub D connector. SB version. BNC connectors
Output Impedance	D version. 110 Ohms SB version. 75 Ohms

Reference Inputs

Ext video reference	Analog composite sync 525/625. 75 Ohm BNC connector
AES reference	D version. Balanced AES clock reference. 110 Ohm SubD connector SB version. Unbalanced AES clock reference 75Ohm BNC connector Both versions are transformer coupled.
Rack reference	Common rack video reference taken from backplane.

Performance

Quantization	24 bits
Sampling	Selectable : 32KHz, 44.1KHz, 48KHz and 96KHz
Gain adjustment	+/- 3dB from full scale range setting
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)
Test Tone	1 Khz 6dBu. Independent for AES1 and AES 2

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

Input select for adjustment	IN 1 / IN 2
Mute input 1	ON / OFF
Mute input 2	ON / OFF
Full scale level select	12dB / 15dB / 18dB / 21dB / 24dB
AES reference select	External AES / Analog video reference / Internal clock
Video Ref select	Rack reference / External reference
Sample frequency	Select: 32KHz, 44.1KHz, 48KHz, 96KHz
AES 1 Test Tone	ON / OFF
AES 2 Test Tone	ON / OFF
AES 1 left gain	Adjust : 0...255 (max +/- 3dB from FS level)
AES 1 right gain	Adjust : 0...255 (max +/- 3dB from FS level)
AES 1 left/right gain	Adjust : 0...255 (ganged adjustment - any offset preserved)
AES 2 left gain	Adjust : 0...255 (max +/- 3dB from FS level)
AES 2 right gain	Adjust : 0...255 (max +/- 3dB from FS level)
AES 2 left/right gain	Adjust : 0...255 (ganged adjustment - any offset preserved)
Restore defaults	Yes / No

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 / Mute / AES input missing / Tone on
Channel 2. AES OK / Mute / AES input missing / Tone on
Reference. Reference OK / Internal reference / invalid reference
General Alarm Indicator – 3 Color

Ordering Information

Model #	Part Number	Description	Includes
C AD 5320 D	6155009290	Dual Analog Stereo to AES Converter (Sub D)	CardModule, Rear termination Panel, + Mounting Screws, and Reference Manual
C AD 5320 BS	6155010271	Dual Analog Stereo to AES Converter (Weco and BNC)	CardModule, Rear termination Panel, + Mounting Screws, 4 x female Weco connectors and Reference Manual