

D AD 3220 B

SERIES 3000

MiniModules

DISTRIBUTION

Dual Digital Audio Distribution Amp.

Description

The D AD 3220 B is a dual digital audio distribution amplifier designed primarily for broadcast and professional applications. Flexible configurations allow the module to be used in dual 1 > 4 or single 1 > 8 applications. Non reclocking inputs means each AES input can have independent sample rates ranging from 32KHz to 108KHz. All inputs and outputs are transformer coupled (isolated). 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

Dual 1 > 4 or single 1 > 8 configurations (selectable).

Unbalanced AES3id digital audio inputs and outputs, with isolation transformers.

Non reclocking inputs supporting 32kHz to 108kHz sample rates (independent for each input channel).

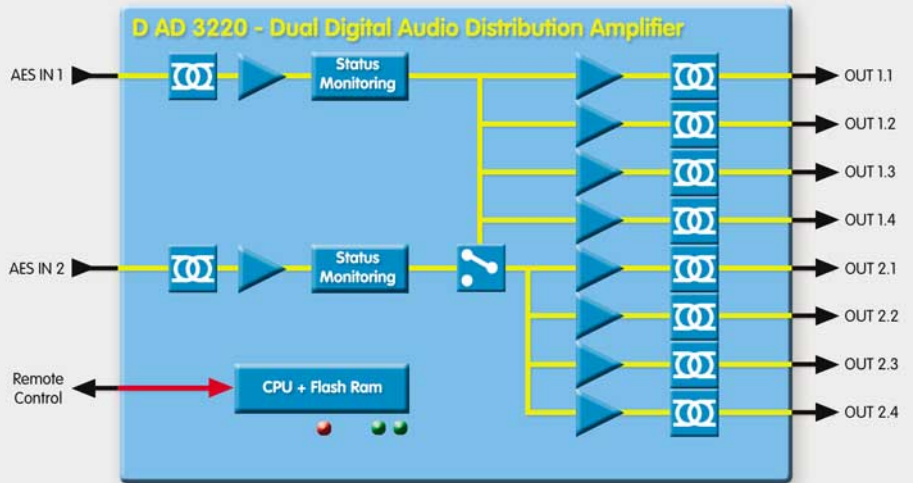
Local DIP-switch, push-button and LED's for local control and status monitoring.

Audio presence detection.

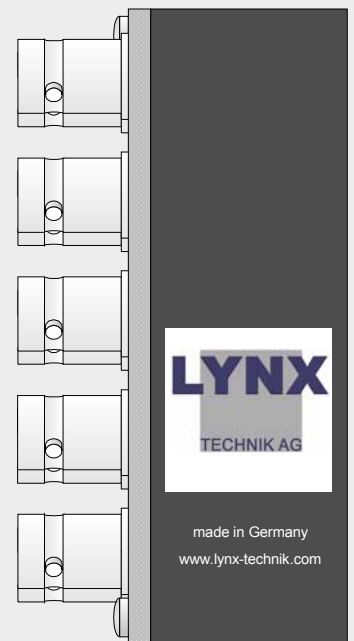
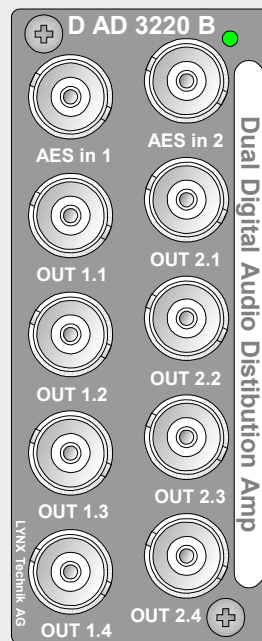
Microprocessor controlled.

Internal flash ram for storing module settings.

Remote control interface.



Actual Size



Dual Digital Audio Distribution Amp.

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

INPUTS

Signal	1 or 2 (switchable) unbalanced audio with transformers (AES3id)
Input Impedance	75 Ohms
Connection	BNC
Return Loss	<25dB (32KHz to 100KHz)

Outputs

Signal	8 x AES3id unbalanced audio outputs with transformers
Output Impedance	75 Ohms
Connection	BNC
Output Level	1.0 V

Operating Modes

Dual	2 audio input channels with 4 outputs each
Single	1 audio input channel with 8 outputs

Performance

Sample Rate	32kHz to 108kHz (independent for each input channel)
Jitter	< 0.025 ui
Status Monitoring	AES parity
Control	Remote Control of configuration (dual/single), remote monitoring of signal status

Electrical Specifications

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

Mechanical

Size	85.5mm x 35.3mm x 27mm + 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)

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