

D&A 3701&2 analogue audio distribution amplifiers

Introduction

The 3701&2 analogue audio distribution amplifiers are modules in the expanding D&A distribution system. Designed to the highest specification, and meeting all relevant international standards including CE approval, modules can be mixed within a frame to satisfy a wide variety of interfacing requirements.

Up to 14 modules can be housed in the 3301 3U frame with a single power supply or 12 in the 3302 3U frame with dual power supplies.

Description

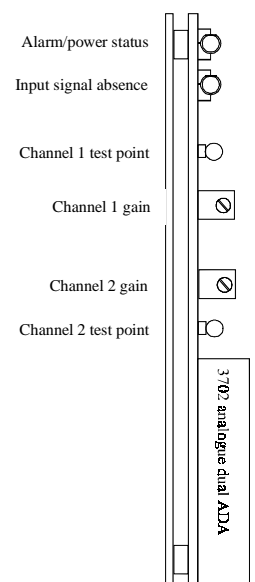
The 3701 single channel ADA has 10 balanced outputs. The 3702 dual channel ADA has 5 balanced outputs per channel. Both require the 3691 rear connector unit. The 3990 D type to removable screw terminal adapter is available as an option. Inputs and outputs are electronically balanced (input transformer(s) available as options). As standard units have high input and low output impedance. Input impedance can be user set to 600Ω.

Variants are available with 600Ω impedance outputs. Further variants of the dual channel ADA are also available which provide both stereo and stereo to mono balanced outputs. Each channel has card edge monitoring points and gain control. The user can bypass the ITCA filter for wide band operation. User configurable alarms can be triggered (card alarm LED, frame LED and external alarm) for loss of power and absence of input signal.

NB These modules require the 3320 14.5V PSU. Whilst they can be mixed with the 3500 & 3501 analogue video distribution amplifiers in the 3301 3U frame with a single power supply or in the 3302 3U frame with dual power supplies, they cannot be mixed with other modules which require the 3310 6.5V PSU.

Features

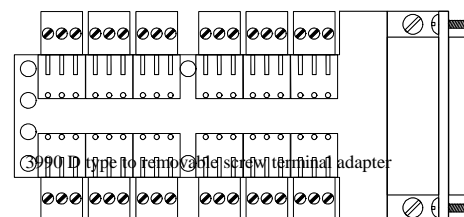
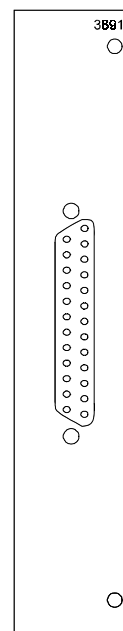
- 3701 single channel 10 balanced output audio DA
- 3702 dual channel 5 balanced output audio DA
- Electronically or transformer balanced input(s)
- User configurable high or 600Ω input impedance
- Versions available with 600Ω output impedance
- Versions available with stereo audio in and both stereo and mono out
- User configurable ITCA or wide band filtering
- Card edge output gain controls and monitoring test points
- Card edge alarm/power status & input signal absence warning LEDs
- User configurable alarms can be triggered (card alarm LED, frame LED and external alarm) for loss of power and absence of input signal



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Specification

Input	
Number	1 balanced per channel
Impedance	>20k Ω (600 Ω configurable) (10k Ω transformer inputs)
Balance	>60dB 20Hz-20kHz
Maximum level	+25dBu (+22dB transformer inputs)
Connectors	3691 25 way D type (3990 D type to removable screw terminal adapter option)
Output	
Number	3701 10 balanced, 3702 5 balanced per channel
Impedance	48 Ω (optional 600 Ω)
Balance	Typically -60dB 1kHz
Isolation between outputs	>80dB 20Hz-20kHz
Maximum level	+25dBu
Connectors	3691 25 way D type (3990 D type to removable screw terminal adapter option)
Performance	
Gain range	-20dB to +20dB
Response	\pm 0.25dB (20Hz-20kHz), -3dB (40kHz) with CCIR filter \pm 0.25dB (20Hz-100kHz) with filter bypassed
Distortion	<0.02% at 0dBu (0.07% transformer inputs)
(20Hz-20kHz 0dB gain)	<0.01% at +8dBu (0.05% transformer inputs)
	<0.03% at +20dBu (0.06% transformer inputs)
Noise	Typically -88dBq CCIR un-weighted, -82dBq CCIR weighted
Inter-channel cross-talk	<100dB @ 1kHz
Inter-module cross-talk	<100dB @ 1kHz
Other	
User selectable alarm options	Loss of power/loss of input signal
Power supply required	Frames with 3320 14.5V power supplies only
Power Consumption	Typical 2W
Temperature range	0 $^{\circ}$ C to 45 $^{\circ}$ C
<i>Above measurements relate to the 3701 or 3702 DAs with 3691 connector unit housed in the 3301 frame using the 3320 power supply.</i>	



Ordering information

Part no.	Description	Weight	Height	Width	Depth
3701	Single channel ADA with electronically balanced input and 10 low Z balanced outputs	250g	100mm	24mm	227mm
3701-1	Single channel ADA with electronically balanced input and 10 600 Ω balanced outputs	250g	100mm	24mm	227mm
3701-2	Single channel ADA with transformer balanced input and 10 low Z balanced outputs	298g	100mm	24mm	227mm
3701-3	Single channel ADA with transformer balanced input and 10 600 Ω balanced outputs	298g	100mm	24mm	227mm
3702	Dual ADA with electronically balanced inputs and 5 low Z balanced outputs per channel	265g	100mm	24mm	227mm
3702-1	Dual ADA with electronically balanced inputs and 5 600 Ω balanced outputs per channel	265g	100mm	24mm	227mm
3702-2	Stereo DA with electronically balanced input & 3 stereo & 4 mono low Z balanced outputs	265g	100mm	24mm	227mm
3702-3	Stereo DA with electronically balanced input & 3 stereo & 4 mono 600 Ω balanced outputs	265g	100mm	24mm	227mm
3702-4	Dual ADA with transformer balanced inputs and 5 low Z balanced outputs per channel	361g	100mm	24mm	227mm
3702-5	Dual ADA with transformer balanced inputs and 5 600 Ω balanced outputs per channel	361g	100mm	24mm	227mm
3702-6	Stereo DA with transformer balanced input & 3 stereo & 4 mono low Z balanced outputs	361g	100mm	24mm	227mm
3702-7	Stereo DA with transformer balanced input & 3 stereo & 4 mono 600 Ω balanced outputs	361g	100mm	24mm	227mm
3691	Audio D type rear	85g	130mm	24mm	81mm
3990	D type to removable screw terminal adapter	45g	54mm	16mm	115mm

We reserve the right to change technical specifications without prior notice. E&OE.

LOCAL
DISTRIBUTOR

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