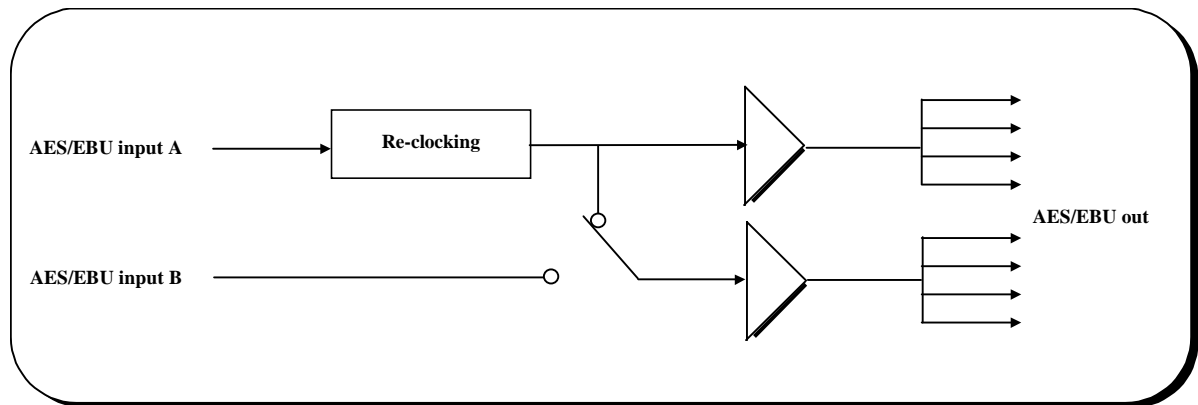


D&A 3602 AES/EBU re-clocking distribution amplifier

Introduction

The 3602 AES/EBU re-clocking distribution amplifier is one of the modules in the expanding D&A distribution system. Designed to the highest specification, and meeting all relevant international standards including CE approval, digital and analogue audio and video 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.



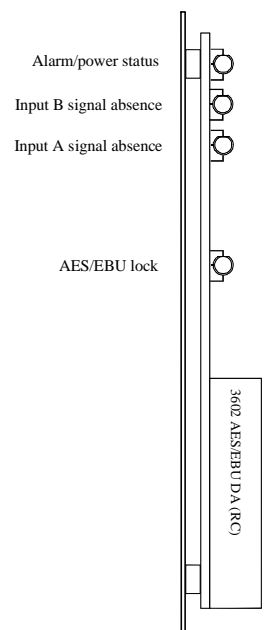
Description

The 3602 AES/EBU re-clocking distribution amplifier is a single channel 8 output unit (single channel 8 output or dual channel 4 output with one channel re-clocked when used with the 3691 rear connector).

The associated 3691 audio D type rear connectors provide balanced connections (the 3990 D type to removable screw terminal adapter is available for use with this unit). Balanced use meets the AES3-1992 standard for distribution of AES audio over 110Ω balanced twisted pairs. Manual equalisation is provided to cater for long input cables. The alternative 3692 audio BNC rear connector unit provides unbalanced connections. Unbalanced use meets the SMPTE 276M standard for distribution of AES audio over 75Ω coax. User configurable alarms can be triggered (card alarm LED, frame LED and external alarm) for loss of power and absence of input signal.

Features

- Re-clocked outputs to reduce jitter
- One in eight out (or dual one in four out with one channel re-clocked)
- Balanced (via D type or screw terminals) or unbalanced (via BNC) operation
- Manual equalisation adjustment for long input cables
- AES3-1992 or SMPTE 276M compatible
- Transformer coupling on inputs and outputs for good common mode performance
- Card edge alarm/power status, input signal absence & AES/EBU lock LEDs
- User configurable alarms can be triggered (card alarm LED, frame LED and external alarm) for loss of power and absence of input signal



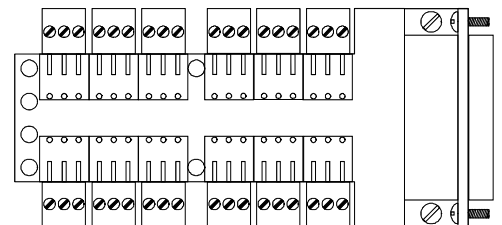
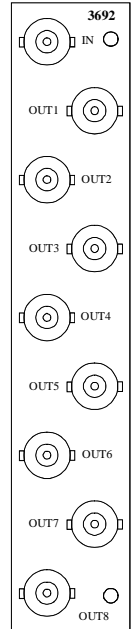
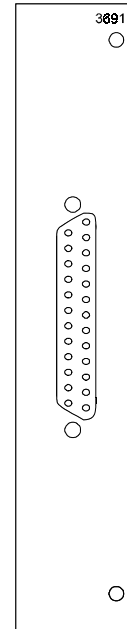
D&A 3602 AES/EBU re-clocking distribution amplifier

Specification

3691 D type connector

3692 BNC connector

Input		
Number	1 or 2	1
Type	Transformer coupled	
Standards	AES3-1992	SMPTE 276M
Impedance	110Ω	75Ω
Signal level	2-7V p-p	0.1 to 1V p-p
Cable length - no eq	<110m	>1000m (PSF1/2 or
-with eq	110-225m (Belden 8451)	Belden 8281)
Connector	25 way D type (3990 D type to removable screw terminal adapter option)	BNC
Sampling frequency	22-56KHz	
Output		
Number	8 (or 2 of 4)	8
Re-clocking	Yes	
Type	Transformer coupled	
Standards	AES3-1992	SMPTE 276M
Impedance	110Ω	75Ω
Signal level	4-5V p-p	1V p-p
Jitter	<5ns	
Delay	<600ns	
Connector	25 way D type (3990 D type to removable screw terminal adapter option)	BNC
Other		
User selectable alarm options	Loss of power and absence of input signals	
Power supply required	Frames with 3310 6.5V power supplies only	
Power consumption	1.8W	
Temperature range	0°C to 45°C	
<i>Above measurements relate to the 3602 DA with 3691 connector unit housed in the 3301 frame using the 3310 power supply.</i>		



3990 D type to removable screw terminal adapter

Ordering information

Part no.	Description	Weight	Height	Width	Depth
3602	AES/EBU re-clocking distribution amplifier	750g	100mm	25mm	220mm
3691	25 way D type rear connector (balanced)	100g	100mm	25mm	70mm
3692	BNC rear connector (unbalanced)	100g	100mm	25mm	70mm
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
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