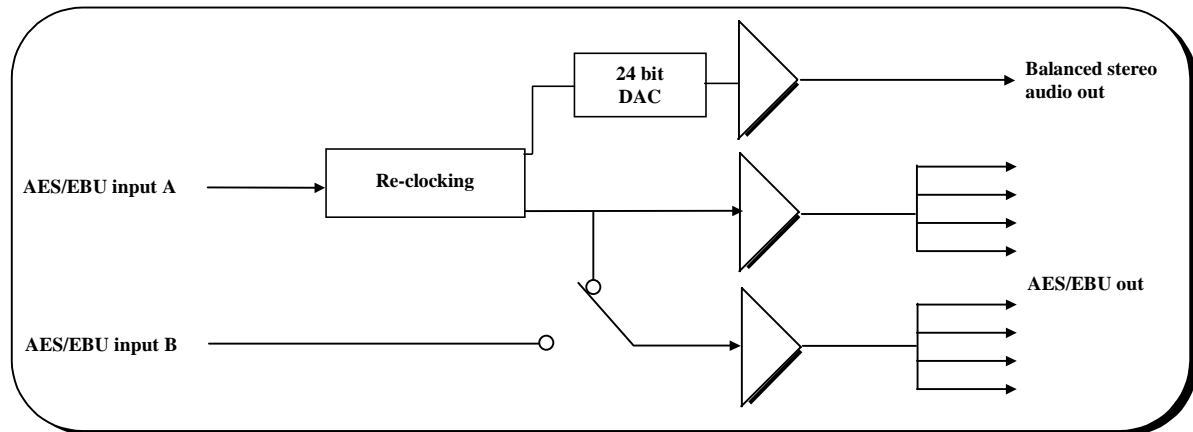


D&A 3603 AES/EBU re-clocking distribution amplifier & 24 bit DAC

Introduction

The 3603 AES/EBU re-clocking distribution amplifier and digital to analogue converter 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.



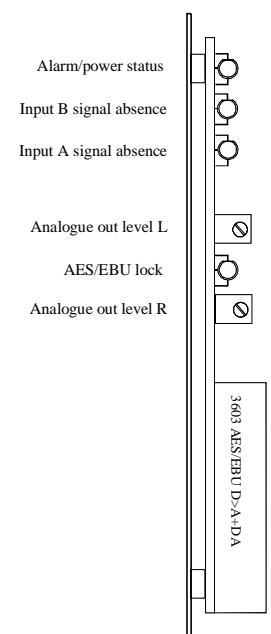
Description

The 3603 AES/EBU re-clocking distribution amplifier and digital to analogue converter is a single channel unit which incorporates a high quality 24 bit DAC and provides a balanced stereo analogue output and up to 8 re-clocked AES/EBU digital outputs.

The associated 3691 audio D type rear connector provides balanced connections (the 3990 D type to removable screw terminal adapter is available for use with this unit). Manual equalisation is provided to cater for long input cables. Four of the digital outputs can be user assigned to the secondary input. In this case the unit provides one fully featured 4 re-clocked output DA with D to A and a second non re-clocked 4 output DA. Balanced use meets the AES3-1992 standard for distribution of AES audio over 110Ω balanced twisted pairs. The alternative 3692 audio BNC rear connector provides unbalanced connections (with limitations on the number of outputs). 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

- High quality 24 bit DAC
- Card edge level controls for balanced stereo analogue output
- Eight re-clocked digital outputs (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 digital 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



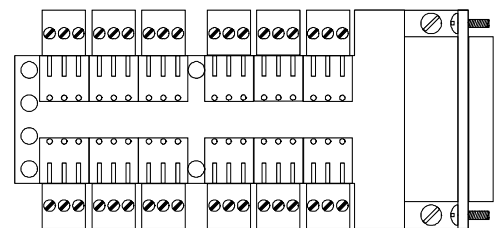
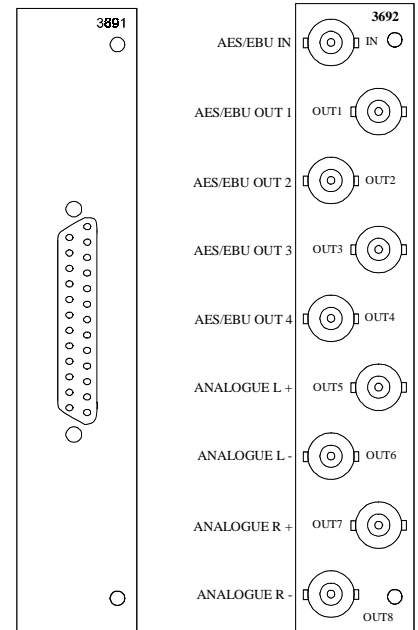
D&A 3603 AES/EBU re-clocking distribution amplifier & 24 bit DAC

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-analogue		
Number		1
Standards		Balanced stereo audio
Impedance		<50Ω
Signal level		Adjustable +12 to +20dBu
Quantization		24 bits
Connector	25 way D type (3990 D type to removable screw terminal adapter option)	BNC
Output-digital		
Number	8 (or 2 of 4)	4
Type		Transformer coupled
Standards	AES3-1992	SMPTE 276M
Impedance	110Ω	75Ω
Signal level	4-5V p-p	1V p-p
Re-clocking		Yes
Connector	25 way D type (3990 D type to removable screw terminal adapter option)	BNC
Jitter		<5ns
Delay		<600ns
Other		
User selectable alarm options		Loss of power & loss of input signal
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 3603 D to A 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
3603	AES/EBU re-clocking distribution amplifier and DAC	750g	100mm	25mm	220mm
3691	Audio D type rear connector (balanced)	100g	100mm	25mm	70mm
3692B	Audio BNC rear connector (unbalanced) for 3603 DAC	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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