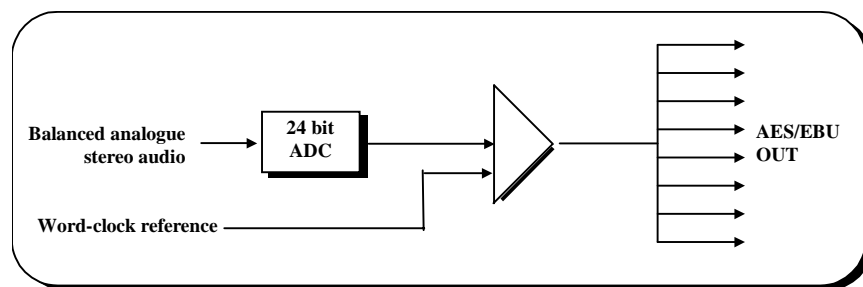


D&A 3640 AES/EBU ADC distribution amplifier

Introduction

The 3640 AES/EBU ADC 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

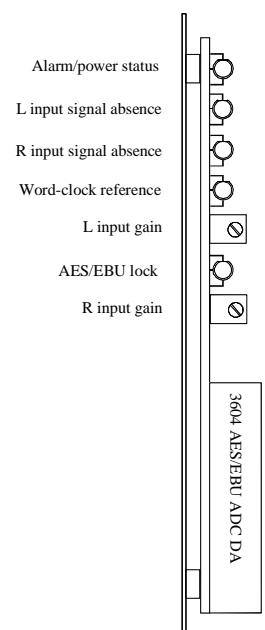
The 3640 24 bit ADC accepts balanced analogue stereo audio and provides 8 AES/EBU balanced stereo outputs. Outputs are locked to a Word-clock reference or, if no reference is present, free run at 48KHz. The unit meets the AES3-1992 standard for distribution of AES audio over 110Ω balanced twisted pairs. User configurable alarms can be triggered (card alarm LED, frame LED and external alarm) for loss of power and absence of external reference and input signals.

The associated 3691-1 rear D type rear connector unit has a BNC to accept an external Word-clock reference signal (with a second BNC for loop through). The 3990 D type to removable screw terminal adapter is available for use with this unit.

Alternatively, the Word-clock reference can be derived from an external analogue video (PAL or NTSC) or AES/EBU source using the 3681 AES/EBU reference generator (and associated 3693 rear connector unit). Word-clock can then be distributed either via the internal bus or externally via BNCs. (Units can be used with the 3691 rear connector unit when the reference is either bussed internally or not required.)

Features

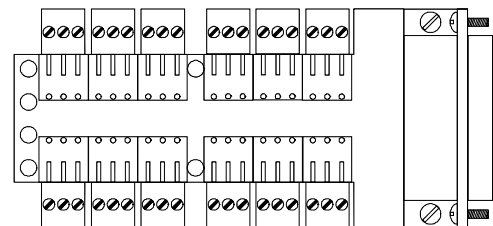
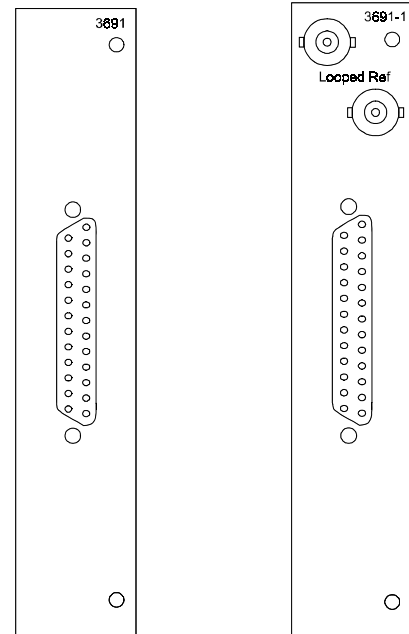
- Dual channel line level balanced analogue input
- Eight AES/EBU 110Ω balanced outputs
- High quality 24 bit processing
- Outputs are locked to a Word-clock reference which can be derived from an analogue video (PAL or NTSC) or AES/EBU source using the 3681 AES/EBU reference generator
- Card edge power/alarm status, input signal absence and Word-clock reference status LEDs
- Card edge left & right channel input gain adjustment
- User configurable alarms can be triggered (card alarm LED, frame LED and external alarm) for loss of power and absence input signals and of external Word-clock reference signal.



D&A 3640 AES/EBU ADC distribution amplifier

Specification

Input	
Number	1 balanced analogue stereo audio
Impedance	>20k Ω (optional 600 Ω)
Balance	>60dB 20Hz-20KHz >80dB @ 1KHz
Maximum level	+25dBu
Quantization	24 bits
Connectors	3691 D type or 3691-1 D type rear with BNCs (3990 D type to removable screw terminal adapter option)
Input-reference	
Number	1 with loop through with 3691-1 D type rear with BNCs
Connector	BNC
Signal	Word-clock TTL
Output	
Number	8
Standards	AES3-1992
Impedance	110 Ω
Signal level	4-5V p-p
Sample rate	48KHz free running or as Word-clock reference
Connector	3691 D type or 3691-1 D type rear with BNCs (3990 D type to removable screw terminal adapter option)
Other	
User selectable alarm options	Loss of power/loss of input signal/loss of reference 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 3640 ADC with 3691-1 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
3640	AES/EBU ADC DA	750g	100mm	24mm	227mm
3691	Audio D type rear	85g	130mm	24mm	81mm
3691-1	Audio D type rear with BNCs	90g	130mm	24mm	87mm
3990	D type to removable screw terminal adapter	45g	54mm	16mm	115mm
3681	AES/EBU reference generator	750g	100mm	24mm	227mm
3693	AES/EBU reference generator rear	95g	130mm	24mm	87mm

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

LOCAL
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