

5AA2625 dual / single channel ADA

Introduction

The 5AA2625 audio distribution amplifier (ADA) is one of the modules in the 2600 range providing interfaces for analogue audio and digital & analogue video equipment in a 1U or 2U frames with each module independently powered. Designed to the highest specifications and meeting all relevant international standards, modules can be used individually or mixed with others in the range to increase the functionality.

Up to 9 modules can be housed in the 5AV2645 2U rack-mounting frame, up to 4 in the 5AV2641 1U frame and up to 2 in the 5AV2642 portable case (& 5AV2642X portable case with XLRs).

Description

The 5AA2625 ADA is an extremely compact dual channel 5 output DA which can easily be configured by the user to a single channel 10 output DA. Inputs are electronic (optionally transformer coupled) high impedance (or 600Ω by link selection). Up to 3 outputs per channel can be transformer coupled. As standard outputs are low impedance (but can be ordered as 600Ω). Gain adjustment is via front panel trimmers (or optional knobs). Front panel test points allow output monitoring of each channel. The associated rear connector units provide all input and output connections. (If more outputs are required, the 5AA2620 ADA is also available which provides up to 10 outputs per channel.)



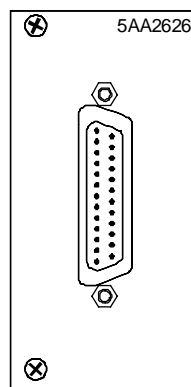
Features

- Front panel gain controls and output monitoring test points for each channel (optional gain potentiometers with knobs)
- 5 balanced outputs per channel of which up to three per channel can be transformer-coupled. Easily configured to single channel 10 output distribution amplifier by link selection
- Electronic or optionally transformer balanced inputs (user selectable high or 600Ω impedance)
- Low impedance outputs (optional 600Ω impedance)
- Input and output transformers achieve wide frequency response and low distortion even at low frequencies using novel circuitry
- Two stereo to mono outputs available by link selection
- A link can be moved to bypass the roll-off filter for time-code distribution
- Requires the 5AA2626, 5AA2626-1 or 5AA2626-2 rear connector unit
- The 5AA2626 incorporates all input and output connections on a 25 way D type socket, ideal for multicore cable with a common screen (the 3990 D type to removable screw terminal adapter is available as an option)
- The 5AA2626-1 has two ½ DIN connectors on a removable sub-assembly, ideal for individually screened twisted pairs, with a choice of crimps or solder tags
- The 5AA2626-2 has removable Weco screw terminal connectors for each input & output, ideal for individually screened twisted pairs
- All 2600 modules are independently mains powered maximising reliability & isolation between modules

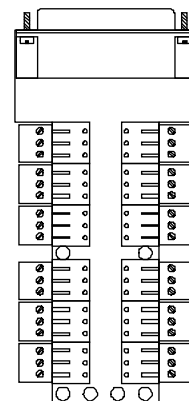


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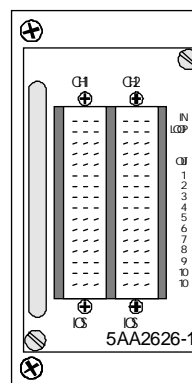
Specification	Electronic	Transformer
Input		
Type	1 balanced per channel	
Impedance	>20k Ω (or 600 Ω)	>10k Ω (or 600 Ω)
Balance	>80dB @ 1kHz	
Max level	+25dBu	
Output		
Number	5 dual/10 single channel balanced (Up to 6 output transformers can be fitted)	
Impedance	48 Ω (optional 600 Ω)	31 Ω (optional 600 Ω)
Balance @ 1kHz	60dB (typically)	
Isolation @ 1kHz	>75dB	
Max level	+25dBu (20Hz to 20kHz)	+18dBu @20Hz +20dBu (40Hz to 20kHz)
Performance		
Gain range	-20dB to +20dB	
Response - CCIR filter	± 0.1 dB (20Hz-15kHz) -0.25dB @ 20kHz -3dB @ 40kHz Smooth roll off thereafter	
Response - No filter	± 0.1 dB (20Hz-30kHz) -1dB @ 100kHz	
THD+N (20Hz to 20kHz) electronic input	<0.005% @ 0dBu <0.006% @ +8dBu <0.015% @ +20dBu	<0.009% @ 0dBu <0.008% @ +8dBu <0.015% @ +18dBu
THD+N (20Hz to 20kHz) transformer input	<0.055% @ 0dBu <0.056% @ +8dBu <0.045% @ +18dBu	<0.045% @ 0dBu <0.045% @ +8dBu <0.095% @ +18dBu
CCIR noise transformer/electronic	<90dBq unweighted, <84dBq weighted	<83dBq unweighted, <80dBq weighted
Inter-channel cross-talk	<109dB @ 1kHz	
Inter-module cross-talk	<109dB @ 1kHz	
Other		
Power supply required	230VAC 50Hz	
Power Consumption	10VA max	
Temperature range	0°C to 45°C	
<i>Measurements relate to 5AA2625 ADA with the 5AA2626 connector unit in a 5AV2645 frame driving high impedance loads (1kΩ and above) unless otherwise indicated</i>		



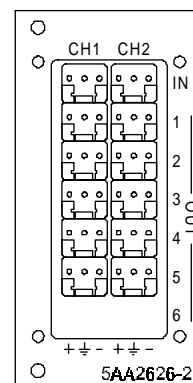
5AA2626 rear unit with 25W D type



3990 D type / removable screw terminal adapter



5AA2626-1 rear unit with 1/2 DIN connectors



5AA2626-2 rear unit with removable screw terminals

Ordering information		Weight	Height	Width	Depth
5AA2625	Dual/single channel ADA electronic high Z in & 5/10 low Z outputs	650g	88mm(2U)	44mm(1U)	300mm
5AA2625-1	ADA as 5AA2625 but with transformer inputs	675g	88mm(2U)	44mm(1U)	300mm
5AA2625-2	ADA as 5AA2625-1 with 1 output transformer per channel	700g	88mm(2U)	44mm(1U)	300mm
5AA2625-4	ADA as 5AA2625-1 with 2 output transformers per channel	750g	88mm(2U)	44mm(1U)	300mm
5AA2625-6	ADA as 5AA2625-1 with 3 output transformers per channel	800g	88mm(2U)	44mm(1U)	300mm
5AA-K	Gain trimmer replaced by panel mounted knob (per channel)	N/A	N/A	N/A	N/A
5AA-OP600	600 Ω output impedance option	N/A	N/A	N/A	N/A
5AA2626	D type rear connector	150g	88mm(2U)	44mm(1U)	130mm
5AA2626-1	Rear connector with 1/2 DIN solder tag connectors on a removable sub-assembly	150g	88mm(2U)	44mm(1U)	130mm
5AA2626-2	Rear connector with removable screw terminals	50g	54mm	16mm	115mm
3990	D type to removable screw terminal adapter for 5AA2626	45g	54mm	16mm	115mm
5AA-C	Crimp terminals (in place of solder tags) for 5AA2626-1	N/A	N/A	N/A	N/A
5AA2627	Audio extender module	150g	88mm(2U)	44mm(1U)	300mm

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

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