



RJM & Associates, LLC
Broadcast Solutions

Data Sheet

ASD Series

Audio Distribution Amplifiers



Key Features

- DAs compatible with Leitch FR-883/884 mounting frames (ADA-101, ADA-101R)
- AMF-100 frame compatible with Leitch 880 Series analog audio amplifiers and generators
- Jumper selection allows either mono or stereo audio in one DA (ADA-101, ADA-101R)
- Remote gain control (ADA-101R)
- Optional redundant power supply available

RJM and Associates produces the ASD Series analog audio DAs and accompanying mounting frame combine top-notch quality and specifications with unmatched pricing.

The AMF-100 is a 2RU frame which will accept any combination of up to 12 ASD Series DAs or Leitch 880 Series analog audio amplifiers and generators. An optional redundant power supply is available.

Two versions of DA are available: a mono/stereo audio DA (ADA-101) and a remote gain control mono/stereo audio DA (ADA-101R). One internal jumper allows either of the DAs to be changed from a single-input mono amplifier to a dual-input stereo amplifier. The ADA-101 provides gain control (+6dB) on the front of the DA while the ADA-101R amplifier allows selection between either local or remote control with a +20dB range. Both DAs are also compatible with Leitch FR-883/884 mounting frames.

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ADA-101 Mono/Stereo Audio DA	
Input:	
Impedance	>30KΩ, balanced
Maximum level	+30dBu (66Ω)
Common Mode Range	±20V
Common Mode Rejection (CMRR)	>90dB @ 60Hz, >60dB @ 20KHz
Outputs:	
Channels	1 (mono) or 2 (stereo)
Outputs per channel	8 (mono) or 4 (stereo)
Output impedance	66Ω balanced
Output isolation	>70dB, 20Hz to 20KHz
Maximum level	+30dBu (66Ω)
Performance:	
Gain Range	-6dB to +33dB (±6db on pot, 0, +9, +18, +27dB on jumpers)
Frequency response	<+0.05dB 20Hz to 20kHz, relative to 1KHz, up to +30dBu (66Ω)
Total harmonic distortion	<0.05%, 20Hz to 20kHz @ +30dBu (66Ω)
S/N ratio	>100dB @ unity gain 20Hz to 20kHz, relative to +8dBu, unweighted
Intermodulation distortion	<0.02%, SMPTE @ +18dBu (66Ω)
Isolation between modules	>100dB, 20Hz to 20kHz
Performance temperature	5 – 40°C
Max. operating temperature range	0 – 50°C
Power dissipation	<2W

AMF-100 Audio DA Mounting Frame	
Number of modules	12 (maximum)
Dimensions	3.5" x 19" x 12" (8.8 x 48.5 x 30.6 cm)
Nominal weight (with modules)	Approx. 16 lbs. (7.6 Kg)
Power Supply:	
Input voltage	90-260VAC, auto ranging
Frequency	50/60Hz
Power dissipation	40W
DC output	±21V

ADA-101R Remote Gain Mono/Stereo Audio DA	
Input:	
Impedance	>30KΩ, balanced
Maximum level	+30dBu (66Ω)
Common Mode Range	±20V
Common Mode Rejection (CMRR)	>90dB @ 60Hz, >60dB @ 20KHz
Remote Gain:	
Control	Local/remote, switch selectable
Type	DC control
Range	±20dB
Outputs:	
Channels	1 (mono) or 2 (stereo)
Outputs per channel	7 (mono) or 3 (stereo)
Output impedance	66Ω balanced
Output isolation	>70dB, 20Hz to 20KHz
Maximum level	+30dBu (66Ω)
Performance:	
Gain Range	±20dB
Frequency response	<+0.05dB 20Hz to 20kHz, relative to 1KHz, up to +30dBu (66Ω)
Isolation between modules	>100dB, 20Hz to 20kHz
Performance temperature	5 – 40° C
Max. operating temp. range	0 – 50° C
Power dissipation	2.5W (600Ω)
Total harmonic distortion	<0.05%, 20Hz to 20kHz @ +30dBu (66Ω)
S/N ratio	>80dB @ unity gain 20Hz to 20kHz, relative to +8dBu, unweighted
Intermodulation distortion	<0.02%

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