

## FLASHLINK

### ADDA-AES-8

# Bi-directional audio transport

**The Flashlink ADDA-AES-8 is an audio converter with both A/D and A/A converters located on a single module.**

The module is well suited for high density modular audio conversion or stand-alone applications with the one slot N-BOX.

It may also be used as an auxiliary module to the AV-3G-XMUX on a dedicated connector panel. With the second generation FlashCase this option occupies only one module slot.

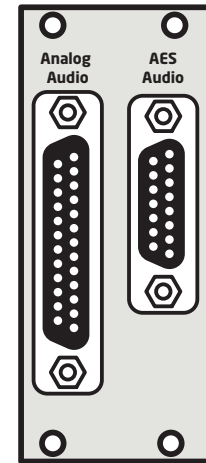
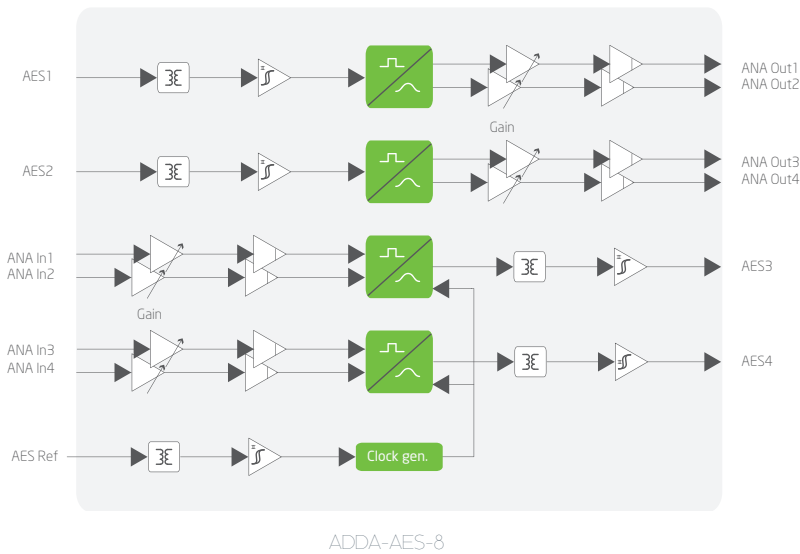
Also available in this family are the ADC-AES-8 and DAC-AES-8, which are dedicated quad stereo converters.

### Applications

- Audio conversion application
- Studio infrastructure

### Key features

- 4 analog audio inputs and 4 analog audio outputs
- External AES11 reference input
- 2 AES inputs and 2 AES outputs
- 107dB(A) dynamic range A/D conversion
- 105dB(A) dynamic range D/A conversion
- 48 or 96kHz sampling frequency
- Manually controlled gain settings



ADDA-AES-8 backplane

## General

Power	+5V/0.27A/1.3W +15V/0.055A/0.82W -15V/0.055A/0.82W
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## A/D converters

Differential input impedance	24 kOhm
Common mode input impedance	50 kOhm
Maximum signal level	+12, +13.5, +15, +16.7, +18, +20, +21 or (0dBFS) +24dBu
Level precision	$\pm 0.1\text{dB}$ where $Z_{\text{source}} < 40 \text{ Ohm}$
Common mode voltage tolerance	$\pm 30\text{V}$ - (Maximum peak signal level)
Frequency response	20Hz - 20kHz $\pm 0.1\text{dB}$
Pass-band ripple	$\pm 0.005\text{dB}$
Stop band attenuation	80dB
Dynamic range	Min. 103dB (A) Typ. 107dB (A) 0dBFS = +18dBu
THD+N @ -1dBFS	Max. -90dB, typical -96dB
Intermodulation distortion	Max. -90dB, typical -95dB
Crosstalk	Max. -90dB, typical -99dB
CMRR (20Hz - 15kHz)	Max. 70dB @ 15kHz, typical -90dB @ low frequencies
Sampling frequency	48 or 96kHz
Digital outputs	AES3 110 Ohm

## D/A converters

Differential output impedance	53 Ohms
Common mode output impedance	20 kOhm
Level precision	$\pm 0.1\text{dB}$ where $Z_{\text{load}} > 10 \text{ kOhm}$
Maximum signal level (0dBFS)	+24dBu or lower in 1dB steps
Common mode voltage tolerance	+50V, -0V
Frequency response	20Hz - 20kHz $\pm 0.1\text{dB}$
Pass-band ripple	$\pm 0.002\text{dB}$
Stop band attenuation	82dB
Dynamic range	Min. 99dB(A) Typ. 105dB(A) 0dBFS = +18dBu
THD+N @ -1dBFS	Max. -85dB, typical -96dB
Intermodulation distortion	Max. -90dB
Crosstalk	Max. -90dB, typical -95dB
CMRR (1kHz BBC method)	Max. 46dB, typical 65dB

## Ordering options

20194 ADDA-AES-8	4 ch. audio A/D and 4 ch. D/A converter, 24bit conversion
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## CONTACT INFORMATION

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