

DAC-2121

Digital-to-Analog Audio Converter

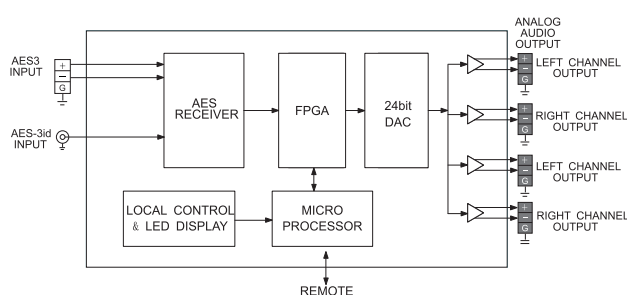
The DAC-2121 is an AES/EBU to analog audio converter. It is used in i-MOD platform. The module converts 1 AES3 input or 1 AES-3id input to 4 analog audio outputs. Output gain can be adjusted. Input level can be displayed via card-edge LEDs.

The DAC-2121 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.

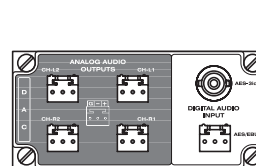
FEATURES

- 24-bit processing
- 1 AES3 input, or 1 AES-3id input or 1 S/PDIF input
- Digital audio input sampling rate from 32 kHz to 192 kHz
- Input level viewable from -74 dBFS ~ -6 dBFS
- 4 analog audio outputs
- Output gain adjustment ranges from -48 dB ~ 24 dB
- Supports left and right channel conversion, stereo output for mono input, and phase reversion
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

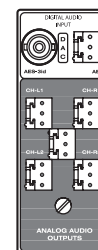
BLOCK DIAGRAM



BACK MODULES



1RU



2RU

SPECIFICATIONS

Specifications are subject to change without notice.

BALANCED DIGITAL AUDIO INPUT

Signal Format.....AES3
 Connector.....3Pin (x1)
 Impedance.....110 Ω
 Level.....2 ~ 7 Vp-p
 Jitter.....<0.02 UI
 Input Sampling Rate.....32 ~ 192 kHz

UNBALANCED DIGITAL AUDIO INPUT

Signal Format.....AES3-3id
 Connector.....BNC (x1)
 Impedance.....75 Ω
 Level.....1 Vp-p $\pm$ 10%
 Input Sampling Rate.....32 ~ 192 kHz
 S/N Ratio.....>75 dB
 Channel Crosstalk.....<-80 dB, 20 Hz ~ 20 kHz
 Frequency Response..... $\pm$ 0.25 dB, 20 Hz ~ 20 kHz
 Output Delay.....670 ns

ANALOG AUDIO OUTPUT

Signal Format.....Balanced analog audio
 Connector.....3Pin (x4)
 Impedance.....22 Ω
 Maximum Level.....20 dBu
 S/N Ratio.....>75 dB
 Channel Crosstalk.....<-80 dB, 20 Hz ~ 20 kHz
 Frequency Response..... $\pm$ 0.25 dB, 20 Hz ~ 20 kHz
 Output Delay.....670 ns

ELECTRICAL

Power.....2.5 W

ENVIRONMENTAL

Operating Temperature.....32° ~ 104° F (0° ~ 40° C)
 Relative Humidity.....10% ~ 90%