

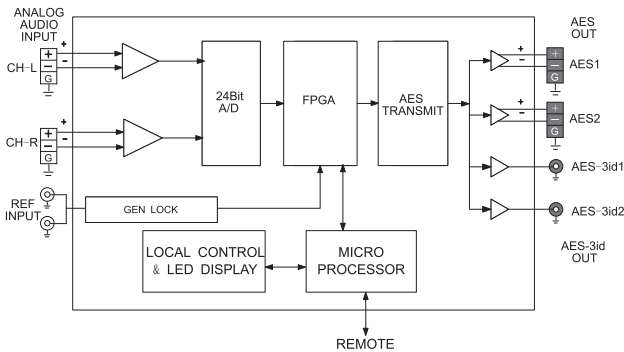
ADC-2121

Analog-to-Digital Audio Converter

The ADC-2121 is an analog audio to AES/EBU converter. It is used in i-MOD platform. The module converts 2 analog audio inputs to 2 AES outputs and 2 AES-3id outputs. Output digital audio signals can be synchronized to reference clock signals or digital audio signals. Input level can be displayed via card-edge LEDs.

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

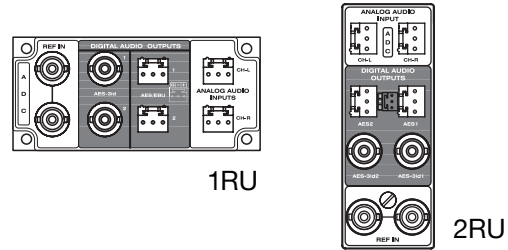
BLOCK DIAGRAM



FEATURES

- 24-bit processing
- 2 analog audio inputs
- Input level viewable from -50 dBu to +18 dBu
- Supports external reference inputs: word clock or AES-3id
- Three output sampling rate options: 48 kHz, 96 kHz and 192 Hz
- Output gain adjustment ranges from -12 dB to 12 dB
- Supports left and right channel conversion, stereo output for mono input, and phase reversion
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

BACK MODULES



SPECIFICATIONS

Specifications are subject to change without notice.

REF INPUT

Signal Format.....AES-3id or 48 / 96 / 192 kHz
Word Clock
Connector.....BNC (x2)
Impedance.....75 Ω

ANALOG AUDIO INPUT

Signal Format.....Balanced analog audio
Quantization.....24 bits
Connector.....3Pin (x2)
Impedance.....>20 kΩ
Level Range.....20 dBu(Max.)

BALANCED DIGITAL AUDIO OUTPUT

Signal Format.....AES3
Connector.....3Pin (x2)
Impedance.....110 Ω
Level.....5 Vp-p ±10%
Jitter.....<0.02 UI
Output Sampling Rate.....48 kHz, 96 kHz, 192 kHz
Output Delay.....670 ns

UNBALANCED DIGITAL AUDIO OUTPUT

Signal Format.....AES3-3id
Connector.....BNC (x2)
Impedance.....75 Ω
Level.....1 Vp-p ±10%
Jitter.....<0.02 UI
Output Sampling Rate.....48 kHz, 96 kHz, 192 kHz
S/N Ratio.....>75 dB
Channel Crosstalk.....<-80 dB, 20 Hz ~ 20 kHz
Frequency Response.....±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%