



**LINK ELECTRONICS, INC.**

## AES/EBU DIGITAL AUDIO TO ANALOG MODEL LEI-547



MADE IN THE USA



### FEATURES

- ◆ 18 BIT DAC
- ◆ AES-EBU Audio DA
- ◆ Stand-alone
- ◆ Four Outputs AES3-ID
- ◆ Two Stereo Analog Outputs
- ◆ Error Detection
- ◆ Transformer Coupled Digital I/O
- ◆ FP Select BNC/Terminal Input
- ◆ Monitoring Distribution

The LEI-547 accepts either AES3-1992 or AES3-ID inputs and provides a total of four outputs of digital audio to AES3-ID specifications. In addition, it provides two sets of balanced low impedance analog outputs. Transformer coupled digital inputs and outputs are standard to eliminate the possibility of ground loops. Captive screw terminal blocks are used for the AES3-1992 while AES3-ID use BNC connectors.

A front panel switch selects between BNC or screw terminal, (AES3-ID, AES3-1992). Sample rate LED's show three rates, 48KHz, 44.1KHz and 32KHz. An error detection LED indicates any errors on the incoming signal. An AC power switch on the front panel allows the user to turn the unit on or off at will. The fuse is on the front panel for easy access..

The analog conversion is accomplished using a 1-BIT Delta-Sigma converter with 18-BIT resolution. The output cells employ a unique cross-coupled design for precise amplitude and phase matching.

The digital signal path uses state-of-the-art integrated circuits. The data is re-sliced and re-clocked for jitter attenuation. Sample rate is automatically detected and indicated by front panel LEDs. Data errors are also detected and reported by a red LED on the front panel.

The 500 series is housed in the same case as the well accepted 700 series. A black front panel distinguishes between the two series. Three 500 or 700 series can be mounted in the PRT-700 rack tray.

**MODEL LEI-547  
AES/EBU DIGITAL AUDIO  
TO ANALOG CONVERSION**

**SPECIFICATIONS**

**INPUTS:**

Number: ..... Two (selectable)  
 Interface: ..... AES3-1992 (twisted-pair)  
 ..... or AES3-ID (BNC)  
 Format: ..... Bi-Phase Mark Encoded  
 Impedance: ..... 110Ω or 75Ω  
 Sampling Frequency Range: ..... 30kHz TO 50kHz  
 Level: ..... 200mV Minimum

**DIGITAL OUTPUTS:**

Number: ..... Four, AES3-ID  
 Format: ..... Bi-Phase Mark Encoded  
 Impedance: ..... 110Ω OR 75Ω  
 Level: ..... 4.2Vp-p TYP.  
 Jitter: ..... <0.02UI  
 Connectors: ..... BNC

**ANALOG OUTPUTS:**

Number: ..... Four, Two Left Channels and Two Right Channels  
 Impedance: ..... 66Ω  
 S/N Ratio: ..... >80dB  
 Frequency Response: ..... ±0.5dB, 20Hz to 20KHz  
 Total Harmonic Distortion: ..... 0.003%  
 Crosstalk: ..... >85dB  
 DC Offset: ..... >2mV

**INTERNAL ADJUSTMENTS:**

Output Analog Audio Level, Left: ..... Resistive Trim  
 Output Analog Audio Level, Right: ..... Resistive Trim

**DIGITAL TO ANALOG CONVERSION:**

Method: ..... 1-BIT, Delta-Sigma  
 Resolution: ..... 18-BIT  
 Over-Sampling Ratio: ..... 128X  
 Modulation Order: ..... 3

**FRONT PANEL INDICATORS:**

Power Indication: ..... Green LED  
 Error/No Signal: ..... Red LED  
 Sample Rate Indication: ..... 48KHz, 44.1KHz, 32KHz, Green LEDs

**FRONT PANEL CONTROLS**

Power On/Off: ..... Push Button  
 Input Select: ..... AES3-1992 or AES3-ID

**MECHANICAL:**

Height: ..... 1 Inch  
 Width: ..... 5.5 Inches  
 Depth: ..... 9.25 Inches  
 Weight: ..... 2.5 Pounds

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**PRT-700 RACK TRAY**



**LEI-547 REAR PANEL**

**PROFESSIONAL SERIES--**

**stand-alone television system products--by LINK**