

DIGITAL SYSTEM SOLUTION

16192 Coastal Hwy, Lewes, DE 19958, USA,

+1 302-604-7089 | sales@digisysltd.com

www.digisysltd.com

**DIGI-SYS**

An ISO 9001:2015 Company



**AUTO AUDIO ROUTER**

# AUTO ROUTER-6D

## ANALOG AND DIGITAL AUTO ROUTER

DIGI-SYS ARAD-6D is a 1U rack-mount unit which produces an AES/EBU and Analogue audio output. Comprehensive input selection between balanced XLR or unbalanced BNC analog stereo input or up to 4 balanced AES/EBU Digital inputs or up to 2 SPDIF 75 ohms input signals.

- HIGH QUALITY DESIGN
- GREAT PERFORMANCE
- COST EFFECTIVE
- LONG LIFE
- GOOD EFFICIENCY
- USER INTERACTIVE DISPLAY
- MULTISTAGE PROTECTION

# **ANALOG AND DIGITAL AUDIO AUTO ROUTER ARAD-6D**

## **Salient Features**

- **Adjustable Analog Gain  $\pm 20$  dB**
- **Digital Gain control  $\pm 20$  dB**
- **Selectable Sample Rate up to 96K**
- **Ultra Low Noise & Distortion**
- **Excellent Frequency Response**
- **Digital signal protocol analysis**
- **High signal isolation (transformers)**
- **LCD display with Interactive controls**
- **Bar graph display analog levels**

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The analogue inputs have left and right front panel analog level controls using pre-set potentiometer and additional digital control of  $\pm 20$ dB, through interactive control in 0.5 dB steps. The Interactive controls provide superb flexibility in optimizing signal chain. This unit can also work as AD converter and DA converter. Outputs are always available in Analog and digital Balanced form. The digital signal bit depth can be 16 or 24 bits. The large dynamic range can be optimized by microcontroller with full scale resolution. There is a failsafe by pass relay for the main outputs.

DIGI-SYS ARAD-8 support digital input with the Sample Frequency range from 16 to 192 KHz. The unit as excellent audio performance and has analytical capabilities to decode errors in the incoming Digital signals. The unit has a LCD display which can display all incoming signal critical parameters such as sample rate, bit depth, professional/consumer format etc. etc. Outputs are always available in both Analogue and Digital form through head phone, Balanced XLR and unbalanced BNC.

DIGI-SYS ARAD-8 has excellent overall frequency response and very low distortion, which has been achieved by selectively mixing integrated circuits and discrete devices. Extremely low noise levels and phase matching exceeds all expectations. Digital input transformer with matched input receiver allows perfect recovery from weak digital signals down to 100 mV.

Unique user interface through a graphical LCD and navigation controls provide unlimited configurations and fine level controls. The LCD display also acts as a bar graph display for the active input channel. The unit is housed in a 19" rack mount chassis with power connections as per IEC recommendation.

## Technical Specification

### Digital Input

- Digital input 4x AES/EBU XLR F 3 pin, 2x S/PDIF BNC
- Digital input sample rate 16 KHz to 216 KHz auto detect and displayed
- Input lock accuracy  $\pm 2\%$  of standard sample rates
- Digital input signal resolution Up to 24 bit
- Digital input amplitude 200 mV min. (90 mV typical), 5 V PP max
- Digital input Impedance 110 $\Omega$  balanced, 75 $\Omega$  unbalanced

### Analog Input

- Analog input Stereo 2x XLR F (balanced), 2x BNC (unbalanced)
- Input level 0dBu nom. +20dBu max.
- Input impedance >10k $\Omega$  balanced
- Gain range  $\pm 20$  dB analog,  $\pm 20$  dB digital

### Analog Output

- Analog output 2x XLR M 3 pin balanced (stereo)
- Max output level 24dBu active balanced, 18dBu unbalanced
- Output impedance XLR out <50 $\Omega$  ( min load 600 $\Omega$ )
- Head phone Output 1x Head Phone Jack, Suitable for 32  $\Omega$  or higher
- Frequency Response  $\pm 0.25$ dB (20Hz to 20KHz)
- Signal to noise ratio 105 dB ( 0dBFS)
- Channel matching  $\pm 0.25$ dB (20Hz to 20KHz)
- Dynamic range >110dB
- T.H.D. <0.05

### Digital Output

- Digital output 2x AES/EBU XLR M, 2x SPDIF BNC
- Digital Output Impedance 110W Bal transformer isolated, 75W Unbalanced active
- Sampling Frequency (ADC) 44.1KHz, 48KHz, 88.2KHz and 96KHz
- Sampling Resolution 16 or 24 Bits

### Physical Dimension

- Power 230 V  $\pm 10\%$ , 50 Hz, 20VAMax 110 /230 V  $\pm 10\%$ ,  
50/60Hz 20VA Max (optional)
- Size - HxWxD 44.5mm x 483mm x 203mm(1.75"X19"X8")  
19" rack mount



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## Why Choose DIGI-SYS

DIGI-SYS Your innovative idea's need products which can meet new challenges and compliment your efforts. Our in house innovative end to end computer aided design and manufacturing process is the best solution to meet critical timelines. Our artificial intelligence integrated in every product design, provides unmatched flexibility in field to configure our products to critical demanding needs and yet are very simple to operate. But technology and human innovation know no scarcity.

Our marketing and sales is bonded to customer support. Our technical experts assist you in system design as part of our product offering, which is optimised to your needs. In other words our support starts even before you buy a product from us. Our goal is to provide you best solution for your needs rather than sell you what we have in stock. Prospects who show interest in our products and services invariably get rewarded with best solution at most cost effective price.

## Our Products Line

- Pro Audio Monitor
- Analog to Digital & Digital to analog Audio Converter
- Audio Router
- Remote Site Controller
- Audio Distributor/Switcher
- ON-AIR Light
- Audio Console Mixer
- FM Power Divider/Combiner
- Convection Dummy load (DC to 300 Mhz)

For further information, Please contact us at:

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