

DIGITAL SYSTEM SOLUTION

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DIGI-SYS

An ISO 9001:2015 Company



ANALOG TO DIGITAL & DIGITAL TO ANALOG CONVERTER

AUDIO CONVERTER

A-D And D-A CONVERTER

DIGI-SYS DAAD-2 is a Digital to Analogue converter 1U rack-mount which produces an stereo analog audio output from a balanced XLR or unbalanced BNC digital input. This unit has excellent signal to noise ratio and has Diagnostics capability to detect coding errors in the incoming Digital signals.

- HIGH QUALITY DESIGN
- GREAT PERFORMANCE
- COST EFFECTIVE
- LONG LIFE
- GOOD EFFICENCY

AUDIO CONVERTER DAAD-3

Salient Features

- **Adjustable Analog Gain ± 10 dB**
- **24 bit capability**
- **Digital Gain control ± 20 dB**
- **Selectable Sample Rate up to 96K**
- **Short Circuit Protected**
- **Ultra Low Noise**
- **Excellent Frequency Response.**
- **Stabilized Power Supply**
- **LCD display**
- **Digital signal analysis**
- **High signal isolation (transformers)**
- **Bar graph display analog levels**
- **Interactive controls**

DIGI-SYS DAAD-3 is a combined 24 bit AD & DA converter in a 1U rack-mount, which produces an AES/EBU or S/PDIF Digital Audio output from a Balanced XLR or Unbalanced BNC analog input. It simultaneously produces a stereo balanced XLR or unbalanced BNC output from an incoming AES/EBU or S/PDIF digital input signal.

The analogue inputs have individual left and right front panel fine analog level controls using conductive plastic potentiometer and additional digital control from -20dBu to +20dBu through interactive controls. The Interactive controls provide superb flexibility in selecting balanced or unbalanced signal inputs and other parameters. Out puts are always available in balanced and unbalanced both formats. The output bit depth can be selected from 16 or 24 bits. Sample rate can be selected from 44.1 to 96 KHz as specified. DIGISYS DAAD-3 has the best Digital to Analogue converter. The Sampling Frequency range from 16 to 192 KHz with automatic selection. Bit depth from 16 to 24 bits is also selected automatically. This unit has excellent signal to noise ratio with negligible distortion and excellent phase matching. Inbuilt diagnostics provide all coding errors in the incoming Digital signals.

DIGISYS DAAD-3 has excellent overall frequency response and very low distortion, with negligible phase errors and excellent signal level matching. Extremely low noise input stage for digital input allow perfect recovery from weak digital signals in the range of 100 mV. There is an individual gain control to give ± 10 db level adjustment.

Unique user interface through a graphical LCD and navigation controls provide unlimited configurations and fine level controls. The LCD display in conjunction with built in error analysis provide all critical parameter display. The LCD also acts as a Quad level bar graph display with fine resolution. The unit is housed in a 19" rack mount chassis with power connections as per IEC recommendation.



Technical Specification

Digital to Analogue converter

- Digital input 1x AES/EBU XLR F 3 pin, 2x S/PDIF BNC
- Digital input sample rate 16 KHz to 216 KHz auto detect and display
- Input lock range $\pm 2\%$ of standard sample rates.
- Digital input signal resolution 16-24 bit
- Digital input amplitude 200 mV min. (90 mV typical), 5 V PP max
- Digital input Impedance 110 Ω balanced, 75 Ω unbalanced
- Analogue output 2x XLR M 3 pin (balanced), 2x BNC (unbalanced)
- Max output level 24dBu active balanced, 18dBu active unbalanced
- Output impedance <50 Ω (min load 600 Ω)
- Frequency Response ± 0.5 dB (20Hz to 20KHz)
- Signal to noise ratio 105 dB (0dBFS)
- Total Harmonic Distortion <0.005
- Channel matching ± 0.25 dB (20Hz to 20KHz)
- Dynamic range >110dB

Analogue to Digital converter

- Analog input 2x XLR F (balanced), 2x BNC (unbalanced)
- Level reference +4dBu (-9dBFS) nominal
- Input level 0dBu nom. +20dBu max.
- Input impedance >10k Ω balanced
- Dynamic range >100dB
- Gain range ± 10 dB analog, ± 20 dB digital
- Digital output 1x AES/EBU XLR M, 1x SPDIF BNC
- Output Impedance 110W Bal transformer isolated, 75W Unbal active
- Sampling Frequency 44.1KHz, 48KHz, 88.2KHz and 96KHz
- Sampling Resolution 16 or 24 Bits
- Frequency Response ± 0.25 dB (20Hz to 20KHz)
- Signal to Noise Ratio 90 dB
- T.H.D. <0.005

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")
Standard 19" rack mounts.

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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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