

**FEATURES... Head-Phone Distribution Amplifier**

**HPDA-8D**

- Analog + AES/EBU +SPDIF inputs
- Adjustable input Gain  $\pm 20$  dB
- 24 bit capability
- Digital Gain control  $\pm 20$  dB
- Selectable Sample Rate up to 96K
- Short Circuit Protected.
- Ultra Low Noise DAC.
- Excellent Frequency Response.
- Extremely Low Distortion.
- Stabilized Power Supply.
- LCD display
- Digital signal analysis capabilities
- High isolation (transformers)
- Bar graph display analog levels
- Interactive controls



**HPDA-8D**

**DIGI-SYS HPDA-8D** is a 1U rack-mount unit, which accepts AES/EBU, SPDIF & Analogue input both balanced and unbalanced with inbuilt selection. It can simultaneously produce stereo analog and digital balanced output from the selected input signal.

**DIGI-SYS HPDA-8D** accepts 4 balanced AES/EBU signals and 2 SPDIF unbalanced signals in addition to stereo balanced input, with Sample Rate Frequency range from 16 KHz to 192 KHz. This unit has Superior performance with excellent signal to noise ratio and low distortion. It has built in provision for detecting coding errors in the incoming Digital signals. Up to 8 front panel mounted professional TRS jacks can drive all types of stereo headphone with individual volume controls. Outputs from selected input are always available in both Analogue and Digital form through Balanced XLR and unbalanced BNC connectors.

Stereo analogue inputs have fine  $\pm 20$ dB pre-set analog level controls and additional digital range control of  $\pm 20$ dBu through interactive controls. The Interactive controls provide superb flexibility in selecting Stereo or mono Analogue inputs without cluttering the front panel. This unit can also work as AD converter when analog input is selected. Outputs are always available in Analog as well digital Balanced and unbalanced form. The output bit depth can be selected from 16 or 24 bits. The large dynamic range is optimized by microcontroller with full scale resolution as per user requirements.

**DIGI-SYS HPDA-8D** has excellent overall frequency response and very low distortion, which has been achieved by selectively mixing integrated circuits and discrete devices. Extremely low internal noise levels are achieved. 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. Fail safe Relay BYPASS for analog and digital signal is available as option.

The unit is housed in a 19" rack mount chassis with power connections as per IEC recommendation.

## Technical Specification

**HPDA-8D**

### Digital Input

Digital input	4x AES/EBU XLR F 3 pin, 4x S/PDIF BNC
Digital input sample rate	16 KHz to 216 KHz auto detect and displayed
Input lock range	±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	110Ω balanced, 75Ω unbalanced

### Analog Input

Analog input	2x XLR F (balanced), and 2x Phono/BNC unbalanced.
Input level	0dBu nom. +20dBu max.
Input impedance	>10kΩ balanced/ unbalanced
Gain range	±20 dB analog, ±20 dB digital

### Analog Output

Analogue output	8x Head Phone Jack, 3x XLR M 3 pin (balanced) <b>option Fail safe by pass relay.</b>
Max output level	24dBu active balanced
Output impedance XLR out	<50Ω ( min load 600Ω)
Head phone Impedance	32 Ω or higher
Frequency Response	±0.25dB (20Hz to 20KHz)
Signal to noise ratio	105 dB ( Ref. 10dBu)
Channel matching	±0.25dB (20Hz to 20KHz)
Distortion (THD)	<0.005 ( Ref. 10dBu)
Dynamic range	>110dB

### Digital Output

Digital output	1x AES/EBU XLR M, <b>option Fail safe by pass relay.</b> 1x SPDIF BNC
Digital Output Impedance	110Ω Bal transformer isolated, 75Ω Unbalanced active
Sampling Frequency (ADC)	44.1KHz, 48KHz, 88.2KHz and 96KHz
Sampling Resolution	16 or 24 Bits
T.H.D.	<0.005 ( Ref. 0dBFS)

### Mechanical

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

**Note:** - Specifications changes if any will be notified at the time of order acceptance.