

# DPX 4080

Signal processor for sound systems, 4 input and 8 output, 96kHz DSP



The **DPX4080** from DAD is a high performance and easy to use signal processor for sound systems. With processing for 4 inputs and 8 outputs it takes advantage of the latest analogue to digital conversion and DSP technologies to deliver flawless audio that out classes its competition. The advanced 96kHz DSP provides an array of unique and genuinely useful features. For example, LIR linear phase crossover filters which are as easy to use as more conventional filter shapes, and have less latency than FIR filters. Also the powerful VX Limiter suite which sports Peak, RMS and Excursion limiting, as well as multiband limiting for passive 2-way enclosures. Supporting analogue AES3 and Dante™ (DPX4080DN) inputs and having both analogue and AES3 outputs, all under full remote control, makes the DPX4080 suitable for use in the most demanding applications, especially when flexibility is paramount. When used as a loudspeaker management system or digital crossover, the **DPX4080** brings state-of-the-art facilities and performance, however the ability to receive, process and transmit audio without it leaving the digital domain makes the **DPX4080** an ideal central controller for large systems, even when amplifiers with in-built DSP are being employed. Ethernet is used for remote control while a front panel, optimised for use in challenging environments, allows full local control of all features. Control via Linea's intuitive System Engineer application provides many convenient and time saving features such as very flexible management of presets, and Overlay grouping of Mutes, Gains, Delays and EQ across an entire system.

## TECHNICAL SPECIFICATION

### AUDIO PROCESSOR

- Type: Audio management system

### DSP FEATURES

- Input: 4 way mono
- Output: 4 way stereo, 8 way mono
- Max input level: +20dBu
- Frequency response: 10Hz - 40kHz +/-3dB (filter disabled)
- Distorsion: <0.008%, (20Hz to 20kHz)
- Dinamic range in/out: 120dB/118dB
- Digital processing: 64 bit
- Sampling rate: 96 kHz
- A/D - D/A Converter: 24 bit
- Gain OUT: +12dB to -48dB and mute, 0.25dB steps
- Delay: output 2000ms
- Crossover Filters: LIR, Bessel, Butterworth, Linkwitz-Riley, All Pass
- Crossover Filters Slope: 12,18,24,48dB/octave
- EQ frequency: 10Hz to 25kHz, 1/36 octave steps
- Equalizer: 10 parametric filters for output
- EQ Gain: +12dB to -12dB, 0.25dB steps
- EQ width: Q 25 to 0.2 - BW 4.75 to 0.06
- Limiters: Escursion, thermal
- Latency: 640 microseconds
- Memory/Presets: 50

### INPUT/OUTPUT CONNECTORS

- Input signal: XLR in/out
- Data: RJ-45 (ethernet interface)
- Power connection: VDE

### POWER SUPPLY

- Power voltage/frequency: 85 to 230V AC, 50/60Hz

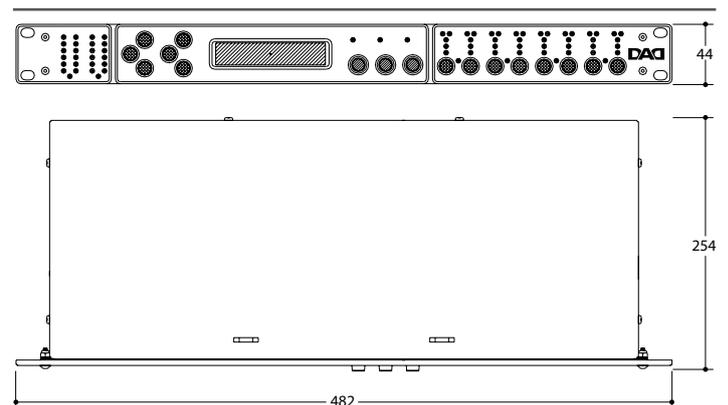
### PHYSICAL

- Dimensions (WxHxD):482x44x254 mm
- Rack unit:1
- Weight:2.7 kg

## MAIN FEATURES

- Four input channels and eight output channels
- Unique, precise, 96 kHz Digital Signal Processing
- Analog, AES3, Dante™ / AES67 (option) inputs and outputs
- LIR Linear Phase crossovers
- Ethernet remote control via Linea's System Engineer PC application
- 3rd party control via contact closure ports
- Manufactured, tested, and supported entirely in the Europa

## TECHICAL DRAWINGS



Visit our website for specifications and tech documentations

