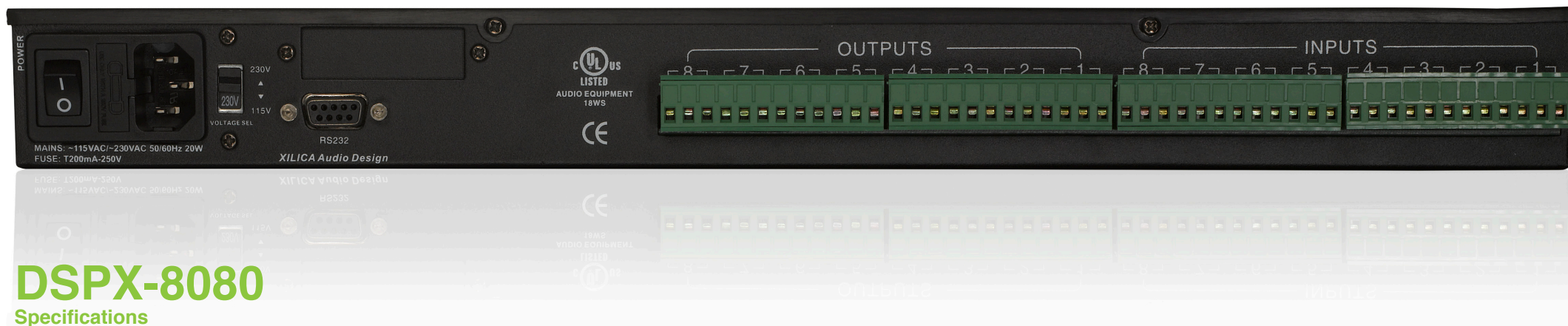# DSPX-8080

- **8 Inputs and 8 Outputs with flexible routing**
- **40-bit floating point DSP**
- **High Performance 24-bit A/D converters**
- **Input source mixing capability**
- **1Hz Frequency resolution**

The DSPX-8080 is a complete 8 input - 8 output Digital Audio Matrix Processor system designed for fixed sound installation markets. The absolute latest in available technology is utilized with 40 bit floating point processors and high performance 24-bit Analog Converters. The high-bit DSP prevents noise and distortion induced by truncation errors of the commonly used 24-bit fixed-point devices. The DSPX-8080 was designed to provide the best audio quality in the installation industry. A complete set of parmeters include I/O levels, delay, polarity, 6 bands of parametric EQ per channel, multiple crossover selections and full function limiters. Precise frequency control is achieved with its 1 Hz resolution. The inputs can be routed and mixed to any output to meet any requirements. The DSPX-8080 can be controlled or configured in real time on the front panel or with the intuitive PC GUI accessed via the RS-232 interface. Multiple setup storage and system security are included.

DSPX-8080
Specifications

Inputs and Outputs
Input Impedance: >10k Ohms
Output Impedance: 50 Ohms
Maximum Level: +20dBu
Type: Electronically balanced

Audio Performance
Freq Response: +/- 0.1dB (20 to 20kHz)
Dynamic Range: 115dB typ (unweighted)
CMMR: > 60dB (50 to 10kHz)
Crosstalk: < -100dB
Distortion: 0.002% (1kHz @+4dBu)

Digital Audio Performance
Processor: 40-bit floating point
Sampling Rate: 96kHz
Analog Converters: High Performance
24-bit
Propogation Delay: 1.5ms

Front Panel Controls
Display: 4 x 32 Character Backlit LCD
Level Meters: 5 segment LED
Buttons: 12 Mute Controls
12 Gain/Menu Controls
6 Menu Controls
Dial Encoder: Embedded Thumb Wheel

Connectors
Audio: 3-pin XLR
RS-232: Female DB-9
Power: Standard IEC Socket

General
Power: 115 / 230 VAC (50 / 60Hz)
Dimensions: 19"x1.75"x9"
(483x44x229mm)
Weight: 10 lbs / 4.6 kg

Audio Control Parameters
Gain : -40 to +15dB in 0.25dB steps
Polarity: +/-
Delay: Up to 450ms per I/O
Equalizers (6 per I/O)
Type: Parametric, Hi-shelf, Lo-shelf,
Gain: -30 to +15dB in 0.25dB steps
Bandwidth: 0.02 to 2.50 octaves (Q=0.5 to 72)
Mixer: Off, -40 to 0dB in 0.25dB steps
Crossover Filters (2 Individuals per output)
Filter Types: Butterworth, Bessel, Linkwitz Riley
Slopes: 6 to 48dB/oct
Limiters:
Threshold: -20 to +20dBu
Attack: 0.3 to 100ms
Release: 2 to 32X the attack time

System Parameters
No. of Programs: 30
Configuration: Generic, 2, 3, 4-Way
Delay Units: ms, ft, m
Frequency Modes: 36 steps/oct,
1Hz resolution
Security Locks: Any individual menu
Channel Names: 6 characters

Note: specifications subject to change without notice