

product specifications



PRODUCT FEATURES

The Adamson Mseries Processor is a complete 4 input - 8 output digital loudspeaker management system. The absolute latest in available technology is utilized with 40-bit floating point DSP processors and high quality 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. A complete set of parameters includes I/O levels, delay, polarity, 6 bands of parametric EQ per channel, multiple crossover selection and full function limiters. Precise frequency control is achieved with 1Hz resolution. Inputs and outputs can be routed in multiple configurations to meet any requirements. The Mseries Processor can be controlled or configured in real time from the front panel or with the Mseries Processor Software accessed via the RS-232 interface or Ethernet network (optional).

DX 6000

technical specifications



TECHNICAL DATA

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	> 40dB (20 to 10kHz)
Crosstalk	< -100dB
Distortion	0.002% (1kHz @+4dBu)

Digital Audio Performance

Processor	32 bit (40 bit ext) floating
Sampling Rate	96kHz
Analog Converters	High Performance 24 bit
Latency	3ms

Front Panel Controls

Display	2 x 16 Characters 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
Ethernet	Standard CAT-5 (Option)
Power	Standard IEC Socket

General

Power	90-265 VAC (50 / 60Hz)
Dimensions	19"x1.75"x9" (483x44x229mm)
Weight	10 lbs / 4.6 kg

PRODUCT DATA

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)
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	x2 to x32 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

Specifications Are Subject To Change Without Notice