

product specifications



The Adamson M Series Processor is a super high performance 4 input- 8 output digital loudspeaker management system. It features the absolute latest in available technology is utilized with 40-bit floating point DSP processing and highest quality 24-bit Analog Converters available. FIR (Finite Impulse Response) Linear Phase or Brick Wall Crossover Filters are implemented in the system. FIR gives a linear phase response at the crossover frequency which is much preferred over conventional IIR (Infinite Impulse Response) filters. Phase correction filters are added for precise phase adjustment. The M Series Processor can be controlled or configured in real time on the front panel or with the M Series Processor Software accessed via Ethernet network or RS-232 interface.

technical specifications



PRODUCT 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
Propogation Delay	3ms

Front Panel Controls

Display	4 x 26 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
Ethernet	Standard CAT-5 (Option)
Power	Standard IEC Socket

General

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

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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	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



Adamson Systems Engineering Inc.
1401 Scugog Line 6, Port Perry, ON L9L 1B2
T: [905] 982 0520 F: [905] 982 0609
www.adamsonproaudio.com
sales@adamsonproaudio.com