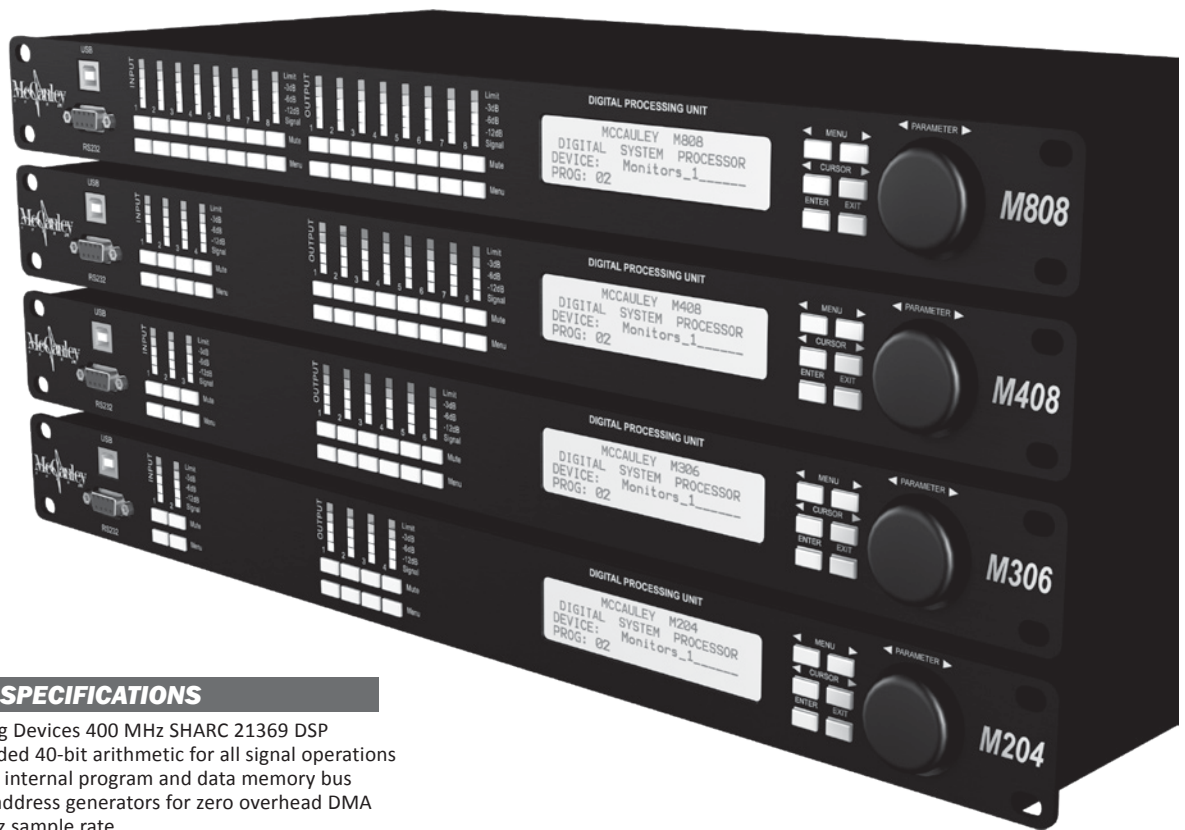


TECHNICAL SPECIFICATIONS

M SERIES

LOUDSPEAKER CONTROLLER

ANALOG DEVICES 400MHz SHARC™ DSP
USB - RJ45 ETHERNET - DB-9 SERIAL
24-BIT LOW NOISE ADC/DAC
96kHz SAMPLE RATE



DSP SPECIFICATIONS

- Analog Devices 400 MHz SHARC 21369 DSP
- Extended 40-bit arithmetic for all signal operations
- 64-bit internal program and data memory bus
- Dual address generators for zero overhead DMA
- 96 kHz sample rate
- 24-bit low noise ADC/DAC

FEATURES AND ADVANCES

- Easy to use Windows™ based software application
- Tablet friendly software interface
- Storage for up to 30 presets onboard
- Each function is individually lockable
- Each input can be routed and mixed to any or all outputs
- A frequency resolution of 1 Hz for all settings
- Eight parametric equalizers on each I/O
- A full 31 band equalizer on each input
- IIR crossover with selectable 6 to 48 dB/Oct. slope for each I/O
- Compressor available on each input and limiter on each output
- Delays up to 650 ms in one sample increments on each I/O
- FIR filters on each output with up to 1200 Taps
- Optional input phantom power on M408 and M808
- Optional AES I/O on M408 and M808

PHYSICAL SPECIFICATIONS

- Simple ergonomic front panel operation
- Serial, USB, RJ45 Ethernet for PC Control standard on every model
- XLR Analog Inputs and Outputs (M808 EUROCON)
- 5 segment color coded LED level meter for each I/O
- Networking of up to 16 devices
- Silent fan-less design
- Single rack space
- Multi-line backlight LCD display

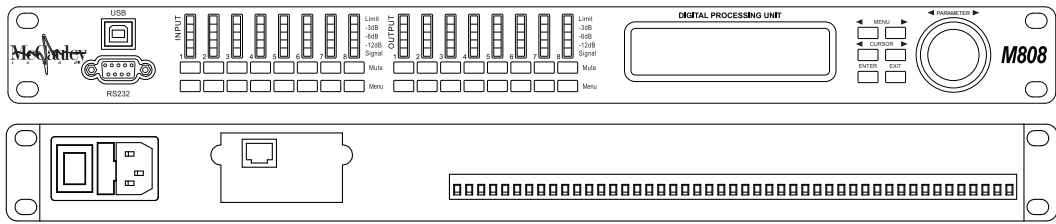
PRODUCT DESCRIPTION

The McCauley Sound M SERIES line of loudspeaker controllers have been engineered to meet the needs of the most demanding live sound and installation environments. With a sleek, space saving design, intuitive front panel, and precise software control, the M SERIES is well equipped to provide the quality and performance you have come to expect from McCauley Sound.

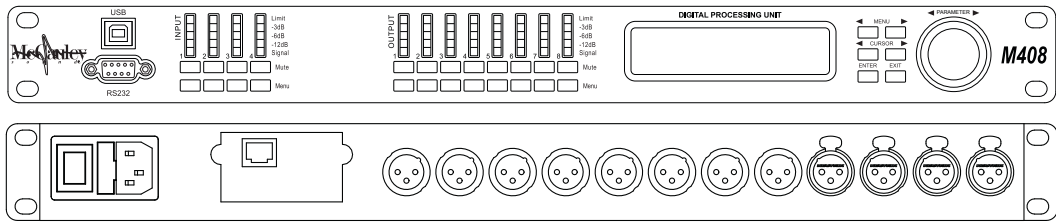
A high speed Analog Devices DSP gives the M SERIES power to handle the most complex loudspeaker configurations. Unlike many other loudspeaker controllers, every input and output can be independently routed and mixed through a series of processing stages. Each of the M SERIES outputs has its own low and high pass crossover, FIR filter, 8 band parametric equalizer, variable delay, gain, and clip limiter stage. In addition, each input has its own low and high pass IIR crossover, 31 band graphic equalizer, 8 band parametric equalizer, variable delay, gain, and compression stage. Even with every processing stage enabled on all channels, the M SERIES maintains its constant low propagation delay of 1.5ms. Every parameter can be changed with a few button clicks via the intuitive and user friendly front panel interface. The multiline LCD and jog wheel allows for quick setup, recall, and adjustment of up to 30 presets from the front panel. For advanced configurations a Windows™ based tablet friendly interface can control up to 16 networked M SERIES.

PANEL DETAILS

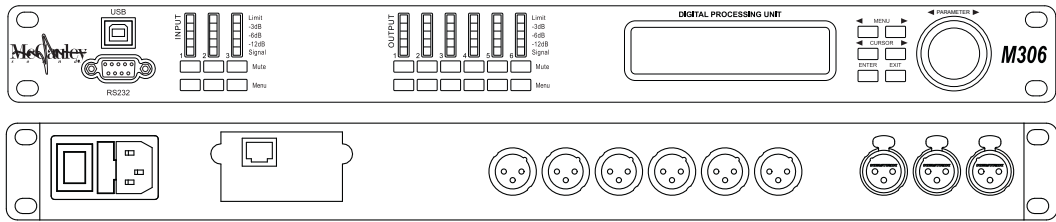
M SERIES M808 8 IN : 8 OUT



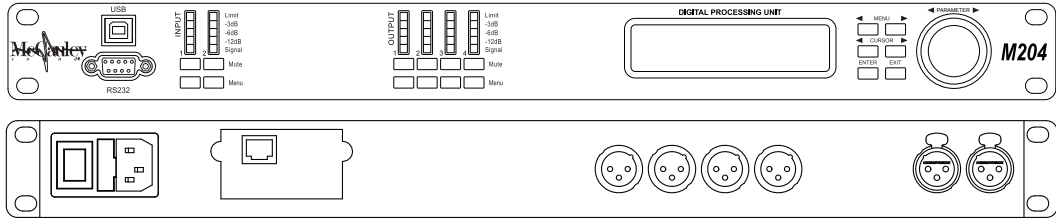
M SERIES M408 4 IN : 8 OUT



M SERIES M306 3 IN : 6 OUT



M SERIES M204 2 IN : 4 OUT



SPECIFICATIONS

INPUTS & OUTPUTS	Input Impedance	>10k Ohms	FRONT PANEL	Display	4 x 26 Character Backlit LCD
	Output Impedance	50 Ohms		Level Meters	5 Segment LED
	Maximim Level	+20dBu		Buttons	Mute Controls, Menu Controls
ANALOG	Type	Balanced	CONNECTORS	Dial Encoder	Jog Wheel
	Freq. Response	+/- 0.1dB (20 to 30 kHz)		Analog I/O	3-pin XLR
	Dynamic Range	115dB typ (un-weighted)		M808 Analog I/O	Eurocon
	CMMR	> 60dB (50 to 10 kHz)		RS-232	Female DB-9
	Crosstalk	< - 100dB		USB	Type B
DIGITAL	Distortion	0.002% (1 kHz @ +4dBu)	GENERAL	Ethernet	Standard CAT-5
	Processor	400 Mhz SHARC™ 21369		Power	Standard IEC Socket
	Sample Rate	96 kHz		Power	90-240 VAC (50 / 60Hz) 20VA
	Analog Converters	24-bit		Dimensions	19" x 1.75" x 9"
	Propagation Delay	1.5ms	CONTROL	Weight	10 lbs / 4.6 kg
				Gain	-40 to +15dB in 0.25dB steps
				Polarity	+/-
				Delay	Up to 650ms per I/O