

Multiple Amplifier Arrays

MLA400 Series MLA800 Series MMA400 Series MMA800 Series

Four or eight individual channels to boost either microphone or line level balanced inputs up to +24 dBm, 600-ohm line levels with either active or transformer balanced outputs. Use as microphone, line buffer, IHF interface, audio distribution and level matching amplifiers. Drive headphones or interfaces phone line. Combine channels with rear connector jumpers to form stereo summing networks, DAs, simple mixers or even a press box. Adjustable gain, up to 82dB mic and 42dB line. Low noise and distortion, ruler flat response. Barrier block terminals, 1-3/4" rack mount; accessory XLR in-out panels available.

- Four or eight, high or low gain audio channels
- Rear panel jumpers
- Drive multiple outputs at different gain settings
- Combine high and low gain microphone inputs into many outputs
- Normalized incoming telephone lines and drive outgoing feeds with a Multiple Line Amplifier array.



MODELS

MLA400-1	Four Line-to-Line Amplifiers, Transformer Balanced Outputs.
MLA400-2	Four Line-to-Line Amplifiers, Active Balanced Outputs.
MLA800-1	Eight Line-to-Line Amplifiers, Transformer Balanced Outputs.
MLA800-2	Eight Line-to-Line Amplifiers, Active Balanced Outputs.
MMA400-1	Four Microphone to Line Amplifiers, Transformer Balanced Outputs.
MMA400-2	Four Microphone to Line Amplifiers, Active Balanced Outputs.
MMA400-1-PH15	MMA400-1 with 15VDC Phantom Power Option.
MMA400-2-PH15	MMA400-2 with 15VDC Phantom Power Option.
MMA400-1-PH48	MMA400-1 with 48VDC Phantom Power Option.
MMA400-2-PH48	MMA400-2 with 48VDC Phantom Power Option.
MMA800-1	Eight Microphone to Line Amplifiers, Transformer Balanced Outputs.
MMA800-2	Eight Microphone to Line Amplifiers, Active Balanced Outputs.
MMA800-1-PH15	MMA800-1 with 15VDC Phantom Power Option.
MMA800-2-PH15	MMA800-2 with 15VDC Phantom Power Option.
MMA800-1-PH48	MMA800-1 with 48VDC Phantom Power Option.
MMA800-2-PH48	MMA800-2 with 48VDC Phantom Power Option.

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Technical Specifications

MLA400 Series MLA800 Series
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GAIN	MMA400/MMA800; 64, 74 OR 84dB. MLA400/MLA800; 22, 32 or 42dB. Each channels gain is dependent on output gain jumper plug position.
MAXIMUM INPUT	MMA400/MMA800; RF bypassed, balanced 40dB gain Instrumentation Amplifier, Zin=20Kohm. Maximum input is -20dBu. Gain can be reduced to 0dB to accept line level sources up to +22dBu by removing a jumper. MLA400/MLA800; RF bypassed, balanced, -2dB Differential Amplifier, Zin=30Kohm, +22dBu maximum input.
MAXIMUM OUTPUT	+24dBm into 600 ohm loads. 15Vrms into high impedance loads. MMA/MLA-1; Transformer Balanced, 60 ohm source Z. MLA/MMA-2; Active balanced, 300 ohm source Z, protected and RF bypassed.
NOISE	MMA400/MMA800; E.I.N.= -120dBm maximum with 150 ohm source resistance. MLA400/MLA800; E.I.N.= -92dBm with 600 ohm source resistance. Both measured with 20kHz equivalent square bandwidth. All hum components are at least 10dB below white noise.
FREQUENCY RESPONSE	+/- .25dB, 20 to 20,000Hz. -3dB at 3Hz and 40kHz typical. Square wave rise time 6uSec.
DISTORTION	.25% maximum THD, 30 TO 20,000 Hz at +22dBm out.
HUM REJECTION	60dB at 60Hz.
CROSSTALK	-70dB maximum at 10kHz.
TERMINALS	Rear barrier blocks for all input, output and summing jumpers. Fanning strips with solder terminals provided for easy prewiring and quick change servicing.
POWER	115/230 VAC +/- 10%, 47 -63Hz., 20VA.
DIMENSIONS	19" W x 1 3/4" H x 7 1/2" D, 10 lbs.
OPTIONAL FEATURES	
MIX MINUS	Generates four or eight mix minus outputs.
PHANTOM POWER	+15V Phantom Power available on the MMA400/800.
SE8	Shaft Extenders (8) for fingertip adjustment (user installed).
WARRANTY	Limited, One Year Warranty