

# 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

<b>MLA400-1</b>	Four Line to Line Amplifiers, Transformer Balanced Outputs.
<b>MLA400-2</b>	Four Line to Line Amplifiers, Active Balanced Outputs.
<b>MLA800-1</b>	Eight Line to Line Amplifiers, Transformer Balanced Outputs.
<b>MLA800-2</b>	Eight Line to Line Amplifiers, Active Balanced Outputs.
<b>MLA800-XLR-1</b>	Eight Studio Line Amplifiers, Transformer Balanced Outputs.
<b>MLA800-XLR-1M</b>	Eight Metered Studio Line Amplifiers, Transformer Balanced Outputs.
<b>MLA800-XLR-2</b>	Eight Studio Line Amplifiers Active Balanced Outputs.
<b>MLA800-XLR-2M</b>	Eight Metered Studio Line Amplifiers, Active Balanced Outputs.
<b>MMA400-1</b>	Four Microphone to Line Amplifiers, Transformer Balanced Outputs.
<b>MMA400-2</b>	Four Microphone to Line Amplifiers, Active Balanced Outputs.
<b>MMA400-1-PH15</b>	MMA400-1 with 15VDC Phantom Power Option.
<b>MMA400-2-PH15</b>	MMA400-2 with 15VDC Phantom Power Option.
<b>MMA400-1-PH48</b>	MMA400-1 with 48VDC Phantom Power Option.
<b>MMA400-2-PH48</b>	MMA400-2 with 48VDC Phantom Power Option.
<b>MMA800-1</b>	Eight Microphone to Line Amplifiers, Transformer Balanced Outputs.
<b>MMA800-2</b>	Eight Microphone to Line Amplifiers, Active Balanced Outputs.
<b>MMA800-1-PH15</b>	MMA800-1 with 15VDC Phantom Power Option.
<b>MMA800-2-PH15</b>	MMA800-2 with 15VDC Phantom Power Option.
<b>MMA800-1-PH48</b>	MMA800-1 with 48VDC Phantom Power Option.
<b>MMA800-2-PH48</b>	MMA800-2 with 48VDC Phantom Power Option.

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## Technical Specifications

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<b>GAIN</b>	MMA400/MMA800; 64, 74 OR 84dB. MLA400/MLA800; 22, 32 or 42dB. Each channels gain is dependent on output gain jumper plug position.
<b>MAXIMUM INPUT</b>	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.
<b>MAXIMUM OUTPUT</b>	+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.
<b>NOISE</b>	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.
<b>FREQUENCY RESPONSE</b>	+/- .25dB, 20 to 20,000Hz. -3dB at 3Hz and 40kHz typical. Square wave rise time 6uSec.
<b>DISTORTION</b>	.25% maximum THD, 30 TO 20,000 Hz at +22dBm out.
<b>HUM REJECTION</b>	60dB at 60Hz.
<b>CROSSTALK</b>	-70dB maximum at 10kHz.
<b>TERMINALS</b>	Rear barrier blocks for all input, output and summing jumpers. Fanning strips with solder terminals provided for easy prewiring and quick change servicing.
<b>POWER</b>	115/230 VAC +/- 10%, 47 -63Hz., 20VA.
<b>DIMENSIONS</b>	19" W x 1 3/4" H x 7 1/2" D, 10 lbs.
<b>OPTIONAL FEATURES</b>	
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).
<b>WARRANTY</b>	Limited, One Year Warranty