

# Multiple Amplifier Arrays

## MLA400 Series MLA800 Series MMA400 Series MMA800 Series

ATI MLA and MMA Series Line and Mic Amplifiers give you four or eight individual channels to boost either line or mic level balanced inputs up to +24dBm, 600 ohm line levels with either active or transformer balanced outputs. Use these versatile units as microphone, line buffer, IHF interface, audio distribution and level matching amplifiers. Drive headphones or interface phone lines. 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, 1RU rack mount; accessory XLR input & output panels available.

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



*MLA400 Series*



*MLA800 Series*

### MODELS AVAILABLE

<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>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

MLA400 Series MLA800 Series  
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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, Z <sub>in</sub> =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, Z <sub>in</sub> =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 wave 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 6μSec
<b>DISTORTION</b>	.25% maximum THD, 30 TO 20,000Hz at +22dBm output
<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. (Specify for 230VAC operation)
<b>DIMENSIONS</b>	19" (48cm) W x 1-3/4" (4.4cm) H x 7-1/2" (19cm) D
<b>SHIPPING WEIGHTS</b>	
<b>MMA400-1 Series</b>	6 lbs. (2.7kg)
<b>MMA400-2 Series</b>	5 lbs. (2.3kg)
<b>MMA800-1 Series</b>	8 lbs. (3.6kg)
<b>MMA800-2 Series</b>	5 lbs. (2.3kg)
<b>OPTION</b>	
<b>SE4</b>	4 Shaft Extenders for fingertip adjustment (user installed)
<b>SE8</b>	8 Shaft Extenders for fingertip adjustment (user installed)
<b>WARRANTY</b>	Limited, One Year Warranty