Micro Amp Series

AUDIO TECHNOLOGIES INCORPORATED
Dedicated to sound engineering
Sound reasons to specify ATI

Sound Packaging
- MicroAmps are handsome: Their reverse printed poly-carbonate panels and textured polyurethane paint will resist years of wear and abuse.
- MicroAmps are microsized: Only 1 1/4" H x 8 1/2" W x 7" D (44 mm x 216 mm x 178 mm)
- MicroAmps are rackable: Singly or two side-by-side in only one rack unit (1 1/4" H).
- MicroAmps are stackable: Non-slip suction cup feet keep them where you put them.
- MicroAmps are designed for your world: They're completely coffee proof.
- MicroAmps are versatile: Dual concentric gain controls allow use in dual mono or stereo modes with low cross talk.
- MicroAmps are fully RF protected: With shielded cases, double ground plane shielded PC board and interwinding shields in input, output and power transformers.

Sound Performance
- MicroAmps provide +22dBm at clipping for transformer and single ended outputs. +26dBm for balanced differential outputs.
- MicroAmps are quiet: Total amplifier noise is typically within one dB of the thermal noise of source impedance.
- MicroAmps are transparent: A 13V/microsecond slew rate minimizes the irritating harshness of TIM distortion. 100dB open loop gain per stage and 50MHz gain bandwidth product hold typical circuit harmonic distortion below 0.05%, even at 20kHz.

Sound Engineering
- MicroAmps have been designed by a team with a 25-year history of successful broadcast and studio equipment design.
- MicroAmps eliminate by design the most common problem areas in utility amplifier application with RF protected inputs and outputs, extremely high input overload capabilities and high output clipping levels.
- MicroAmps exclusively utilize the newest premium integrated amplifiers designed specifically for professional audio applications, rather than lower cost, lower performance instrumentation-grade operational amplifiers.
- MicroAmps fully meet the high slew rate criteria necessary to minimize Transient Intermodulation Distortion (TIM).
- MicroAmps provide individual, self-contained shunt regulated shielded power supplies with designed-in transient protection for 115/230VAC 50/60Hz operation.
- MicroAmps are available in 3 models: Transformer outputs for high RF environments. Balanced differential outputs for maximum output with lowest distortion and widest response. Single ended outputs for lowest cost.

M1000 Series
Precision Dual Microphone Amplifiers
M1000-1 Dual, Transformer Outputs
M1000-2 Dual, Balanced Differential Outputs
M1000-3 Dual, Single Ended (Unbalanced) Outputs
- Transformer coupled inputs and outputs incorporate full electrostatic and magnetic shielding.
- XLR type input connectors.
- Low noise: ~124dBm equivalent input noise (20kHz bandwidth).
- High input overload: 125mVrms minimum.
- High gain: 72dB, front panel adjustable.
- Low distortion: 2% maximum with input levels up to 100mWrms.
- Flat response: ±0.25dB, 50 to 20,000Hz.
**L1000 Series**

**Precision Dual Line Amplifiers**

- **L1000-1** Dual, Transformer Outputs
- **L1000-2** Dual, Balanced Differential Outputs
- **L1000-3** Dual, Single Ended (Unbalanced) Outputs

- Balanced differential inputs: 30,000 ohm bridging, fully transient protected and RF suppressed.
- 80dB common mode hum rejection.
- High input overload capability: +24dBm bridging.
- Low noise: -107dBm equivalent input noise (20kHz bandwidth).
- Low distortion: 0.5% maximum (direct outputs).
- Flat response: ±0.25dB, 50 to 20,000Hz.
- 34dB voltage gain: Front panel adjustable.

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**P1000 Series**

**Precision Stereo Phono Amplifiers**

- **P1000-1** Dual/Stereo Transformer Outputs
- **P1000-2** Dual/Stereo Balanced Differential Outputs
- **P1000-3** Dual/Stereo Single Ended (Unbalanced) Outputs

- High gain: 1mVrms @ 1kHz for +8dBm output. Front panel adjustable, accepts any cartridge.
- High input overload: 320mVrms @ 1kHz, cannot be overloaded even by direct and digitally mastered disks driving high output cartridges.
- Lowest noise: 80dB S/N referred to 10mVrms @ 1kHz, cartridge source impedance.
- Flat response: RIAA curve ±0.25dB.
- Hi boost switch: Brightens dull or worn recordings.
- Hi cut switch: Cuts strident, scratched or distorted recordings.
- Rumble filter: Active feedback 2 pole high pass filter blocks rumble, record warp and seismic pickup without loss of audio, only 3dB down at 20Hz but 18dB to 26dB rejection in the 10 to 7Hz tone arm resonance range.
- Low distortion: 2% max (Transformer output); 0.5% max (direct outputs).
- Mounting: Brackets supplied for internal turntable cabinet mounting.
Specifications

M1000 Series
Precision Dual Microphone Amplifiers

M1000-1 Dual. Transformer Outputs
M1000-2 Dual. Balanced Differential Outputs
M1000-3 Dual. Single Ended (Unbalanced) Outputs

Output Clipping Level
+22dBm/600 ohms (M1000-1,3)
+26dBm/600 ohms (M1000-2)

Distortion
-20dBm output and input levels from -52 to
-18dBm

2%, maximum THD 30 to 20,000 Hz

Frequency Response
+25dB, 50 Hz to 20,000Hz
-1dB at 20Hz

Equivalent Input Noise
20kHz measurement bandwidth, 150 ohm source impedance

Input Overload
125mVrms minimum

Input Impedance
5000 ohms minimum, transformer coupled

Gain
72dB, front panel adjustable

Power
115/230VAC ± 10%, 47-63Hz

Size
8"W x 1½"H x 7"D, 2½ lbs.

Mounting

L1000 Series
Precision Dual Line Amplifiers

L1000-1 Dual. Transformer Outputs
L1000-2 Dual. Balanced Differential Outputs
L1000-3 Dual. Single Ended (Unbalanced) Outputs

Output Clipping Level
+22dBm/600 ohms (L1000-1,3)
+26dBm/600 ohms (L1000-2)

Distortion
+20dBm output and input levels to +24dBm

2%, maximum THD 30 to 20,000 Hz

Frequency Response
+25dB, 50 Hz to 20,000Hz
-1dB at 20Hz

Equivalent Input Noise
20kHz measurement bandwidth, 3.5 microvolts

Hum Rejection
60dB for common mode hum

Hi Cut Switch
-3dB @ 10kHz
13V/Microsecond

Hi Boost Switch
+3dB @ 10kHz
115/230VAC ± 10%, 47-63Hz

Size
8½"W x 1½"H x 7"D, 2½ lbs.

Mounting
Brackets supplied for internal turntable cabinet or desk top mounting. Single and dual rack-mount kits available.

P1000 Series
Precision Stereo Phono Amplifiers

P1000-1 Dual/Stereo Transformer Outputs
P1000-2 Dual/Stereo Balanced Differential Outputs
P1000-3 Dual/Stereo Single Ended (Unbalanced) Outputs

Output Clipping Level
+22dBm/600 ohms (P1000-1,3)
+26dBm/600 ohms (P1000-2)

Distortion
+20dBm output and input levels from +24dBm

2%, maximum THD 30 to 20,000 Hz

Frequency Response
RIAA Curve ± .25dB, 30 to 20,000Hz

Input Sensitivity
Adjustable, 1mVrms at 1kHz for
+3dBm output

Input Overload
320mVrms at 1kHz

Input Impedance
47k ohms and 220pf

Signal to Noise Ratio
Unweighted, ref. 1mVrms 1kHz input
80dB

Frequency Response
RAA Curve ± 25dB, 30 to 20,000Hz

Input Overload
320mVrms at 1kHz

Input Impedance
47k ohms and 220pf

Subsonic Warp & Arm Resonance Filter
-3dB max @ 20Hz

Hi Cut Switch
-3dB @ 10kHz
13V/Microsecond

Hi Boost Switch
+3dB @ 10kHz
115/230VAC ± 10%, 47-63Hz

Size
8½"W x 1½"H x 7"D, 2½ lbs.

Mounting
Brackets supplied for internal turntable cabinet or desk top mounting. Single and dual rack-mount kits available.

Reproduced by:

3 year limited warranty

Technical specifications are subject to change at the discretion of the manufacturer.

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