

System 10K Modular Audio Amplifier Series

SYS10K

The ATI System 10,000 is the ideal unit for multiple distributions when it comes to stereo or mono amplifying, microphone amplifying, or headphone distribution. The SYS10K is perfect for any ballpark, museum, or large venue such as the United Nations where many of our SYS10K systems can be found. The rack mounts up to ten amplifier modules and two power supplies. Each plug-in module is supplied with it's own applicable connector assembly, thereby allowing for ease of insertion and quick hot-swaps.

The system features headphone jacks on all modules to allow a quick signal check. The flexible design let's you mix basic and metered modules in the same enclosure to optimize your system performance. All input, output, and power lines are fully by-passed. The double ground plane PC board shields with an additional top formed shield covering on each module, protecting low-level circuitry from direct pick-up. The distribution power regulation on each amplifier module minimizes localized heat build-up in the power supplies. The durable rack makes the SYS10K a well-rounded device that speaks for itself.

- **Mix and Match**
- **Power Splitting Distribution Amplifier Modules**
- **Individual Output Distribution Amplifier Modules**
- **Independent Level Adjustments**
- **Master Gain Input Control**
- **Headphone Output**



Models

MODULAR DISTRIBUTION AMPLIFIERS

- **CDA100** - 1X6 Compression/DA Module
- **DA100** - 1X6 DA Module
- **DA200** - Dual 1X4 DA Module
- **DA200S** - 1x8 Distribution Amplifier Module
- **IDA100-1** - 1x6 DA Module for - Transformer Output
- **IDA100-2** - 1x6 Distribution Amplifier Module
- **MDA100** - Metered 1x6 DA Module
- **MIDA100-1** - Metered 1X6 DA Module - Transformer Output
- **MIDA100-2** - Metered 1X6 DA Module
- **SDA200** - Stereo 1X4 DA Module
- **SMDA200** - Stereo Metered 1x4 DA Module

MODULAR ONE AMPLIFIER

- **LA100-1** - 1CH Line Amplifier Module - Transformer Output
- **LA100-2** - 1 CH Line Amplifier Module
- **MLA100-1** - Metered 1 CH Line Amplifier Module - Transformer Output
- **MLA100-2** - Metered 1 CH Line Amplifier Module

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Technical Specifications

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GAIN	DA: 24dB nominal, 54dB for CDA – Front Panel Gain Controls MIC: *74dB, 64dB, and 24dB with knob front panel gain control at clockwise MAX. LINE: *50dB, 40dB, and 20dB with front panel screwdriver gain control at clockwise MAX. *Gain steps are selectable by an internal jumper plug position
NOMINAL OUTPUT LEVEL	+4dBm, Balanced 600 Ohms @ 0VU Meter Indication
OUTPUT CLIPPING LEVEL	DA: +22dBm Maximum, 600 ohms; MIC/LINE: +24dBm Maximum, 600 ohms
INPUT LEVEL	DA/LINE: +24dBm Max, Bridging 600 ohms MIC: 125mVrms Max
DISTORTION 30 TO 20 kHz	DA: .25% Max THD @ +20dBm output; MIC/LINE: .05% Max THD @ +22dBm output
FREQUENCY RESPONSE	+ .25dB, 30 to 20,000 Hz
NOISE	DA: -84dBm EIN.; MIC: -124dBm EIN; LINE: -94dBm EIN70dB below nominal output
INPUT HUM REJECTION,	60 dB Minimum (common mode 60~120Hz)
CROSSTALK @ 10kHz ADJACENT MODULES	70dB below nominal output
INPUT IMPEDANCE	DA/LINE: 10K ohm Minimum, Balanced; MIC: 4k ohm Minimum, Balanced
METERING	MDA100/CDA100 & MIDA100: Ten segment LED Bargraph; Range -21 to +6 VU at 3dB/step, 0 VU adjustable 0 to +18dBm. SMDA200, MDA200, MMA100, MMA200, MLA100, MLA200: Ten segment LED Bargraph; Range -15 to +12 VU at 3dB/step, 0 VU adjustable +8dBm down to -10dBm
HEADPHONE OUTPUT	10Vrms to 600 ohm headphones
CDA100 COMPRESSOR	Input Threshold level: -30dBm, adjustable upward. Attack time: 50mSec Release Time: 5 Sec nominal, 2 to 20 Sec with component change. Compression Hold Threshold: Input must drop 20dB below comp. Threshold for longer than .25 Sec. Recovery Time, to release Compression Hold: 1mSec. Typical
MDA100 & CDA100	Signal Alarm Threshold: Detects on single dropouts of 30dB below 0 VU, longer than ¼ Sec. Signal Alarm Output: CMOS FET Switch to .025 posts with mating plug. May be paralleled to activate common alarm.
PHANTOM POWER	MA100/200 & MMA100/22: Mic: Selectable by internal jumper plug position. Three positions, Off, 12VDC at 4mA internal power or external phantom power source of up to 48VDC.
VCA OPTION	MA100/200, LA100/200, MLA100/200, MMA100/200: Provides remote gain control. Requires an external 10K ohm linear taper potentiometer
CONNECTION	DA100, MDA100, CDA100, MIDA100: External audio wiring is connected to barrier blocks with pre-wireable fanning strips (standard) or punch blocks on the module connector assembly. SDA200, SMDA200, DA200, MDA200, MA100/200, LA100/200, MLA100/200: External audio wiring is connected to punch blocks on the applicable module connector assembly.
POWER REQUIREMENTS	PS100 Power Module, A bi-polar unregulated 18VDC supply drives the system power buss through fused isolation diodes. Operates singly or as a redundant pair in the right hand positions of each rack frames.
SIZE	Rack Frame: 5-14"(13.14cm) H by 19"(48.26cm) W by 14-1/2"(35.56cm)D Amplifier Modules: Eurocard format, 100mmX 220mm. 1.2"(3.0cm) panel width. Power Supply Module: Eurocard Format, Extruded Frame, 2.0"(5.1cm) panel width.
WARRANTY	Limited, One Year Warranty