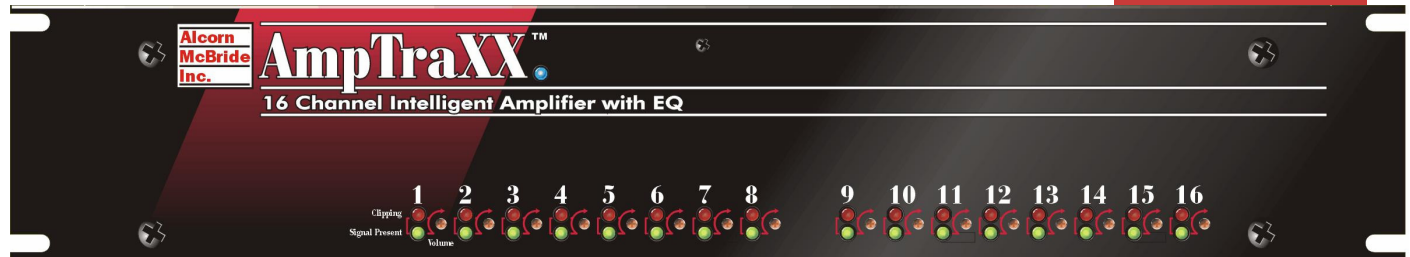


# AmpTraXX™

## 16 Channel Intelligent Amplifier



AmpTraXX gives you sixteen channels of amplification and EQ in just two units of rack space. In many systems it eliminates the need for expensive EQ or DSP racks. It's a complete audio processing and distribution system in a single box.

Each AmpTraXX channel has independent filter configuration (lowpass, highpass, bandpass, notch or none) and parameter adjustments including gain and cutoff frequency. This can solve many installation problems without the addition of expensive signal processing.

For example, you can roll-off low frequencies when using parabolic speakers, or boost base response for smaller, inefficient drivers. AmpTraXX wrings the full potential from almost any type of speaker system.

Each channel provides 20 watts of power -- enough to deliver over 90dB into a 1600 square foot room with four ceiling mount speakers. We installed four ceiling-mounted speakers, each with a sensitivity of 90dB (@1W/1M) in a 40 foot by 40 foot room with a 10 foot ceiling. The total amplifier power required was actually only 8Watts, even allowing 6dB of headroom. Coverage was flat within 9dB throughout the space. And we had 15 channels left over!

By connecting multiple channels to the same input signal you could also create a sixteen channel speaker array, each with its own dynamically-adjustable active crossover network -- that's 320 watts total RMS power.

AmpTraXX also makes life easier during installation. It helps solve speaker wiring mysteries with its internal 1KHz tone generator, which can be enabled on a channel-by-channel basis.



AmpTraXX is programmed using easy-to-understand, graphical Windows software included with each unit. Setup is simple: select which filter you want on a particular channel, then move the sliders up and down to set gain, cutoff frequency, and filter Q. Settings are permanently stored in the unit's memory, and later can be uploaded if changes are needed.

AmpTraXX allows "on-the-fly" adjustments to channel volume and filter settings through the built-in RS232 port.

Manual controls located on the front panel allow for quick volume adjustments without the need for a computer or control system. With the flip of a DIP switch, these levels can be permanently stored in the unit and override previously stored values, or they can be disabled entirely to render the unit completely tamper-proof.

To aid in level settings, front-panel dual-LED indicators associated with each channel indicate signal present and "clipping" or overload condition. A blue power led is also provided.

For connecting AmpTraXX to balanced sources, a low-noise +4dBu balanced input option is available. An optional sixteen-channel transformer module is also offered for 70 or 100-volt speaker systems.

AmpTraXX applications include theme parks, museums, retail stores, restaurants, transportation systems, and multi-lingual environments. AmpTraXX is perfect for walking tours, multi-lingual audio and exhibit spaces, or any venue with lots of audio tracks and a central equipment space. It mates with Alcorn McBride's 8-TraXX audio player or any other line-level audio device to provide great density, attractive per channel pricing, and intelligent features for your most demanding applications.

Contact your Alcorn McBride representative today for a demonstration.

### Features

- 16 Channels x 20 Watts
- Volume and EQ Controls
- RS-232 Interface
- Tamper-Proof Settings
- Level and Peak Indicators
- Universal Power Supply

### Applications

- Theme Parks
- Museums
- Retail Stores
- Restaurants
- Transportation
- Multi-Lingual
- Residential

**Alcorn  
McBride  
Inc.**

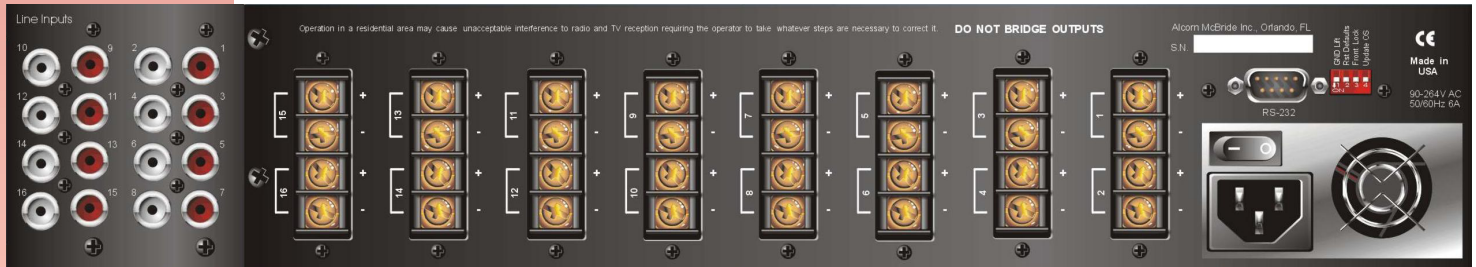
3300 S. Hiwassee  
Building 105  
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Tel (407) 296-5800  
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info@alcorn.com  
www.alcorn.com

# AmpTraXX™

## 16 Channel Intelligent Amplifier

## Specifications

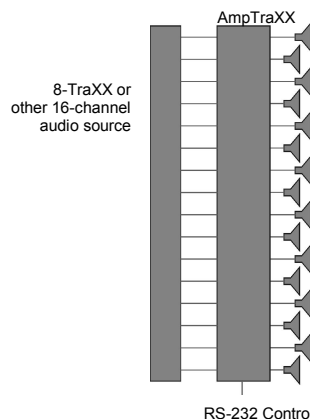
<b>Power Output</b>	20 W, All channels driven, 20-20 kHz 16 W, All channels driven, 20-20 kHz 13 W, All channels driven, 20-20 kHz	(16) 8 Ohm loads 10% THD max (16) 8 Ohm loads 1% THD max (16) 4 Ohm loads 1% THD max
<b>THD+Noise</b>	1.0%	15W 8ohms
<b>Signal-to-Noise Ratio</b>	102 dB	15W 8ohms
<b>Crosstalk</b>	-60 dB	1 kHz, any channel to any channel
<b>Input Type</b>	Unbalanced	(Active Balanced Optional)
<b>Unbalanced Input Connector</b>	RCA	
<b>Balanced Input Connector</b>	Dual DB-25F	
<b>Impedance</b>	20 k Ohm	Minimum each leg to ground
<b>Frequency Response</b>	20-20 kHz	Low-Frequency filter OFF
<b>Maximum Level - SOA</b>	4 volts p-p	20W 8ohm load each channel level control full
<b>Maximum Level - SOA</b>	2.25 volts p-p	13W 4ohm load each channel level control full
<b>Output Type</b>	Direct Coupled	
<b>Output Connectors</b>	Screw Terminal	Accepts 22 to 14 AWG wire
<b>On/Off Transient Muting</b>	Yes, active "depop" circuitry built-in	
<b>Short Circuit Protection</b>	Output to Output, Output to Ground	Shutdown - no damage
<b>Thermal Characteristics</b>	Automatic over-temperature shutdown	
<b>Clip Indicators</b>	90% SOA, Red LEDs	20W 8ohm load each channel level control full
<b>Signal Present Indicators</b>	0.003 volts p-p, Green LEDs	
<b>Power Indicator</b>	Blue LED	
<b>Serial Connector</b>	DB9 Male	
<b>Serial Protocol</b>	EIA232 9600 N,8,1	Ascii Protocol
<b>Serial Control Capabilities</b>	Individual Channel Volume, Mute	
<b>Volume/EQ Set</b>	Stores the current volume and EQ levels	Switchable On-Off
<b>Volume Adjust Disable</b>	Disables front volume controls	Switchable On-Off
<b>Shield Lift</b>	Lifts shields from chassis ground	Switchable On-Off
<b>Input Voltage</b>	120/220 VAC	50/60 Hz Auto Detect
<b>Input Power</b>	400 Watts	Maximum
<b>Agency Compliance</b>	UL CE CSA	
<b>Size</b>	19"W x 3.5"H x 12"D (48cm x 9cm x 30cm)	
<b>Weight</b>	10 lb (5 kg)	
<b>Environment</b>	0° to 38° C (32° to 100° F)	Fan cooled power supply
	0 to 90% relative humidity, non-condensing	



Specifications subject to change without notice.

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Typical Application  
Block Diagram