



# MCA89

Professional Series

16 Channel Power Amplifier  
1,280 Watts RMS total



### Typical System Applications

- Multi-Room Audio
- Outdoor Audio
- Restaurants
- Night Clubs
- Home Theater
- Hotels
- Music Servers
- Background Music

### Key Features

- 16 channels , 80WRMS/CH, 1280 watts RMS max total
- Triple fan cooled , front chassis air draw
- Rack mount option
- 8 zone preamplifier control for volume, bass, treble, 3 band EQ
- Audio Bus , Paging and Phone / Doorbell Mute modes

### High Performance

The MCA89 is a 16 channel power amplifier designed to meet the demands of custom installers who need more power , features and reliability. Each of the 16 channels are capable of delivering 80WRMS/CH. The MCA89 utilizes the latest technical advancements to produce reliable , clean power for today's demanding applications.

Control of all functions of the MCA89 are via RS232 interface, with USB update of all firmware. Each unit is uniquely addressable.

### Audio Inputs ( 9 stereo inputs total )

9 stereo Audio channels with individual input level trim. RS232 controlled 8 audio zone outputs with individual volume, bass, treble and 3 band EQ.

### Reliability

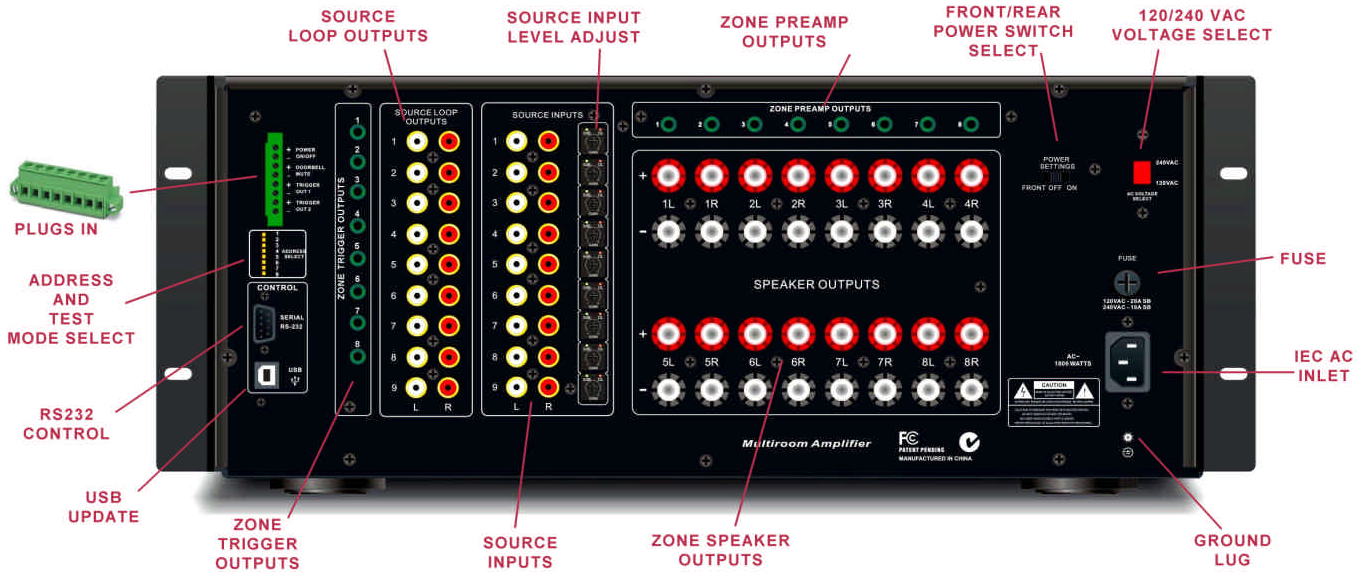
Using ILAB's proprietary Power Management Circuitry (PMCT™ ), the MCA89 continuously monitors the output power of each channel to keep it within safe limits. If the MCA89 is over-driven , ILAB's PMCT™ subtly reduces the volume automatically in steps until the channel is within safe operating limits. The result is power output that is not clipped or exceeds the safe operating limits.



PC based Sample Test/Control Software

Software specification available to allow for control/feedback via touch screens, computers, etc.

# MCA89 Specifications



## Power Output

16 Channels  
 80 Watts RMS /CH @ 8 ohms , all channels driven  
 80 Watts RMS /CH @ 4 ohms , all channels driven  
*ILAB's innovative PMC<sup>ä</sup> technology monitors and controls power output levels so as not to exceed 80W RMS per channel regardless of load impedance. The amplifier circuitry is capable of 130WRMS/CH , but the output is automatically controlled and limited to 80WRMS/CH for extended life.*

## Load Stability

Un-Bridged : 4 to 8 ohms  
 Remote temperature feedback to host controller

## Audio Inputs ( 9 stereo inputs total )

9 stereo Audio channels with individual input level trim controls (+/-3dB), overload LED and signal present LED  
 Each stereo input channel configurable for :

1. Stereo ( Left and Right Channels )
2. Left Channel Only
3. Right Channel Only
4. Left/Right Channel mono mix

## Audio Outputs

8 stereo amplifier Zones  
 8 stereo preamplifier Zones ( fixed or variable outputs )

All Zones (16 channels) with individual volume/bass/treble/ 3 band EQ/balance controls

Individual Mute for each Zone

## Audio selections per Zone output :

1. Stereo from input source 1 to 9
2. Mono mix from input source 1 to 9
3. Split any Zone into dual Mono mix from any 2 input sources.

In Split Zone mode, the MCA89 can be a 16 Zone mono source input system. Or for example, 4 Zones in stereo, and 8 zones in mono for a 12 zone system, etc.

All 9 stereo audio inputs have matching buffered stereo outputs for pass-through.

## Controls

1. Dual 12V AC/DC remote control trigger inputs , action configurable via software
  - a. Trigger action delay 0 or 2 seconds
2. Front power switch
  - a. Front power switch defeat selection switch ( switch located on back panel )
3. Dual independent configurable output triggers. Can be set to 12VDC out or dry relay contacts.
4. 8 Zone trigger outputs (12VDC)

## Other:

Dual torroid main power supplies.  
 Triple fan cooled and oversized heatsinks.  
 All steel chassis with brushed anodized aluminum front panel  
 120/240VAC selection via rear panel

**Dimensions :** 6.97" (4U) height x 19" wide with removable rack ears (17" chassis) x 21.75" deep

**Weight :** 69.5 lbs