



## CP-16i 16 Channel Cool Power® Amplifier

The CP-16i Audio Amplifier is ideal for discerning listeners who demand the highest quality audio in every room. Capable of delivering 100W of true audiophile-grade sound to 16 channels, the Cool Power amplifier easily expands the reach of any audio distribution system. Engineered for performance, the CP-16i features highly efficient, Class-D amplification, overload detection and a compact chassis that fits nicely into one rack space.

Perfect for residential and commercial settings, the experience is the same in every room - amazing. Put RTI technology to the test - you'll never miss a beat.

### RTI Audio Distribution Systems



AD-4x  
Audio Distribution System



AD-8x  
Audio Distribution System



AD-16x  
Audio Matrix Switch

### Key Features

- Sixteen channel amplifier utilizes ICEpower® audio technology.
- Audio output is 100 watts per channel at 4 ohms.
- Bridging audio outputs increases power to 200 watts per channel.
- Easily expands the RTI AD-4x/AD-8x Audio Distribution Systems and AD-16x Audio Matrix.
- Compatible with virtually any audio distribution system.
- Power control via voltage triggers or audio signal sense.
- Signal Sense feature automatically powers the CP-16i on when an audio signal is detected or puts the unit in standby mode when no signal is present.
- Voltage trigger pass-through for powering on/off additional amplifiers.
- Thermal overload and OC (Overcurrent) monitor indicators protect the amplifier.
- Rackmounting requires just 1RU or use included feet for free standing installations.
- Class-D amplifier technology ensures efficient heat dissipation and low power consumption.

### Included in the Box

CP-16i, power cord, rack ears (2) with screws, feet with Screws (4), speaker terminal blocks (8), IO port terminal block (1)

## Specifications

AC Input Voltage ..... 115VAC or 240VAC (Switchable), 230W  
 Main Power Switch..... Front Panel On/Off LED  
 Mounting ..... Rack mount (1RU) or free standing  
 Dimensions (HxWxD)..... 1.7" (44 mm) x 17.25" (438 mm) x  
 .....8.98" (228mm) without connectors  
 .....and 9.30 in (236 mm) deep with connectors  
 Weight ..... 9.0 lbs (4.08 kg)  
 Signal Sense ..... Audio input sense,  
 ..... 12V trigger and 3-5V trigger  
 Standby Power Consumption ..... Less than 0.25W  
 Warranty ..... Three Years (parts & labor)

### Audio

Number of Channels..... 16 channels in 8 stereo zones:  
 ..... each zone can be bridged  
 Output Power ..... 100W per ch. in SE,  
 .....4Ω (1.0%THD+N, 20 Hz - 20kHz)  
 .....200W per ch. in BTL,  
 .....8Ω (1.0%THD+N, 20Hz - 20kHz)  
 Amplifier ..... Gain: (20Hz - 20kHz) 25.8dB ±0.5dB  
 .....Amplifier Input: Single Ended input -  
 .....1 Vrms max Input Voltage without clipping  
 . Amplifier Output: Single Ended output stage - GND referenced  
 ..... Max Output Voltage without clipping is 28Vp  
 THD + N..... 1.0%, 4Ω, SE, f=100Hz, Po=1W  
 Dynamic Range..... 110dBA SE, 115dBA BTL  
 Idle Noise..... 50uV, A-weighted, 20Hz-20kHz  
 Upper Bandwidth, -3dB..... 100 kHz, 4Ω, SE  
 ..... 120 kHz, 8Ω, SE  
 Frequency Response..... ±0.4dB, 10Hz - 20kHz, all loads  
 Input Impedance ..... 47K Ω  
 Output Serial Impedance .....30m Ω, f≤1kHz



### AC Mains Power

AC Mains Power ..... Universal Mains 100 - 240 VAC, 50 - 60Hz  
 Fuse Rating .....T6.3A\_H 250V  
 Power Connection..... IEC 320 C13 power connector  
 ..... with 3-pole detachable power cord

### Thermal

Operating Temperature ..... +32° to +113° F (0° to + 45° C)  
 Thermal dissipation ....2 low noise fans mounted in side panels  
 Thermal dissipation heat loss..... 0.23 W / 0.8 BTU/hr, standby  
 .....40 W / 135.5 BTU/hr, idle, all ch.  
 ..... 100 W / 341 BTU/hr, max output power, all, ch. driven

All Specifications subject to change without notice.

NOTE: Note that the CP-16i requires an external preamp for volume control.

## Do more with Integration Designer 11

Integration Designer 11 elevates the experience for all RTI systems, from residential to commercial. Its stunning new template - complete with custom slider support, one-click background swapping and more - makes it faster than ever to deliver a beautiful finish to every installation. Drivers are directly accessible from within the software, with notifications to keep you always up to date. The integrated system manager lets you track rooms, room status, and source status to save time on every installation. All this and more in [Integration Designer 11](#).

