



## CP-1650 16 Channel Power Amplifier

Keep the party going out by the pool! With all the power you need to bring the music to every room and outdoor space, RTI amplifiers enhance the listening experience, delivering entertainment wherever you go.

The CP-1650 expands the capabilities of an RTI AD-4x and AD-8x Audio Distribution System easily and cost effectively. The amplifier utilizes Cool Power® technology for superb sonic performance, pumping out 50 watts per channel - doubling the output power of an RTI audio distribution system. This extra power is perfect for zone expansion and larger rooms or outdoor areas that need more volume to fill the space with high quality audio. If the music needs even more boost, you can bridge two channels with a simple flip of a switch, for a whopping 100 watts per channel!

Matched with the RTI control ecosystem, you have a complete solution for distributed audio in residential and commercial spaces. So go ahead and put RTI technology to the test - you'll never miss a beat.

### RTI Audio Distribution Systems



*PDM-1  
Phone/Doorbell  
Module*



*RSP-1  
Remote Source  
Wall Plate*



*RTI Audio Distribution Systems  
AD-4x 4 Source - 4 Zone  
AD-8x 8 Source - 8 Zone*

### RTI Control System



## Key Features

- Sixteen channel amplifier utilizes Cool Power® technology.
- Power output is 50W per channel.
- Bridgeable audio outputs for increasing power to 100W per channel.
- Audio input level adjustment on each channel.
- Easily expands the RTI AD-4x and AD-8x audio distribution systems.
- Compatible with virtually any audio distribution system.
- Power control via voltage trigger (3-30V AC/DC), RS-232 or IR.
- IR pass through port for cascading IR signal to additional amplifiers.
- Voltage trigger output for powering additional amplifiers.
- Rackmount or free standing installation.

## Specifications

AC Input Voltage.....	115VAC or 240VAC (Switchable), 230W
Power Switch.....	Front Panel On/Off with LED
Mounting.....	Rack mount or free standing
Dimensions (HxWxD).....	5.24in(133mm) x 17.0in(432mm) x 14.75in(375mm)
Weight.....	23.4lbs (10.6kg)
Operating Temperature.....	C -10 to +40degrees, F +14 to +104 degrees
Operating Humidity.....	5% to 95% Non-condensing
IR Input.....	One, 3.5mm, for IR control
IR Output.....	One, 3.5mm, for IR Passthrough
RS232 Port.....	One, Bidirectional control
Trigger Output.....	One, 12VDC, to trigger another CP-1650
Trigger Input.....	One, 3-30VDC, for power control
Speaker Outputs.....	Eight stereo outputs, two channels each, phoenix connectors
Audio Inputs.....	Eight, RCA jacks x 16
Audio Loop Outputs.....	Eight, RCA jacks x 16

### Audio - 2 Channel Mode

Rated Power/Channel.....	30 Watts, 20Hz to 20KHz
.....	(RMS, 2 channels driven into 8 ohms)
Power/Channel.....	50 Watts, 20Hz to 20KHz
.....	(RMS, 2 channels driven into 4 ohms)
IHF Dynamic Power.....	40 Watts/1KHz at 8 ohm load
.....	60 Watts/1KHz at 4 ohm load
Total Harmonic Distortion @20W/8ohm.....	0.5%

### Audio - Bridged Mode

Rated Power/Channel.....	100 Watts, 20Hz to 20KHz
.....	(RMS, 2 channels driven into 8 ohms)
Total Harmonic Distortion (100W/8 ohms).....	0.5%
Total Harmonic Distortion (1W/8 ohms).....	0.05%

### Audio - General

Total Harmonic Distortion 30W/8 ohms & 50W/4 ohms.....	0.5%
Total Harmonic Distortion @1W/8ohm.....	0.05%
S/N @ Rated Power, IEC A-wtd, Source Input shorted.....	100dB
Frequency Response 20Hz to 20KHz @1W/8ohm.....	1.5+/- .5dB
Input Sensitivity 1W @ 8 ohms.....	170mV/900mV
Input Impedance.....	22KOhms
Channel Separation @ Rated Power/1KHz.....	60dB
Crosstalk Between Sources @ Rated Power/1KHz.....	100dB
Crosstalk Between Zones @ Rated Power/1KHz.....	80dB
Warranty.....	Three Years (parts & labor)

All features and specifications subject to change without notice



Rear view

**Remote Technologies Incorporated**  
 5775 12th Avenue East, Suite 180, Shakopee, MN 55379  
 PH: (952) 253-3100 • Website: www.rticorp.com

## RTI User Interfaces

RTiPanel	Mobile & PC Software Interface (App)
SURFiR	Companion Remote Control
T1-B+	Remote Control
T2i	Remote Control
T2x	Remote Control
T3x	Remote Control
RKM-1+	In-Wall Audio Distribution Keypad
RK1+	2-4-8 Button In-Wall Keypad
KX1	1.2" Audio Distribution Keypad
KX2	2.8" In-Wall Touchpanel Keypad
KX3	3.5" In-Wall Touchpanel Keypad
KX7	7" In-Wall Touchpanel
KX10	10" In-Wall Touchpanel
CX7	7" Countertop/Under-Cabinet Touchpanel
CX10	10" Countertop/Under-Cabinet Touchpanel

## RTI Control Accessories

RP-4	RF Control Processor
XP-3	Advanced Control Processor
XP-6	Advanced Control Processor
XP-8v	Advanced Control Processor
RM433	433MHz RF Antenna
ZM24	2.4GHz Zigbee Transceiver
ZW-9	Z-Wave® Interface Module
CB-8	Touchpanel Connecting Block
CM-232	RS-232 Communication Module
CPB-1	Control Port Connecting Block
ECB-5	IR Connecting Block
ESC-2	Ethernet to Serial Converter
IPE-4	IR Port Expander
PCM-4	Port Control Module
RCM-4	Relay Control Module
vIRsa Mouse	IR Emitter

## RTI Audio/Video Distribution

AD-4x	4x4 Audio Distribution System
AD-8x	8x8 Audio Distribution System
AD-16x	16x16 Audio Distribution Matrix Switch
CP-450	4 Channel Cool Power® Amplifier
CP-1650	16 Channel Cool Power® Amplifier
VHD-4	4x4 HDBT Video Matix Switch
VHD-8	8x8 HDBT Video Matix Switch
VHT-1	HDBT Video Transmitter
VHR-1	HDBT Video Receiver



It's Under Control®