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.

RTI

It's Under Control®

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
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 .... One Year (parts & labor)

All features and specifications subject to change without notice

Rear view

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RTI User Interfaces

RTiPanel	Mobile Software Interface (App)
Virtual Panel	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
KX2	2.8 inch In-Wall Touchpanel Keypad
KX3	3.5 inch In-Wall Touchpanel Keypad
KX7	7 inch In-Wall Touchpanel
CX7	Countertop/Under-Cabinet Touchpanel

RTI Control Accessories

RP-4	RF Control Processor
XP-3	Advanced Control Processor
XP-6	Advanced Control Processor
XP-8s	Advanced Control Processor
RM433	433MHz RF Antenna
ZM24	2.4GHz Zigbee Transceiver
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 Distribution

AD-4x	Distributed Audio System
AD-8x	Distributed Audio System
CP-450	4 Channel Amplifier
CP-1650	16 Channel Amplifier

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