



Key Features

- 16 channel amplifier utilizes Cool Power® technology.
- Fifty watts per channel.
- Audio input level adjustment on each channel.
- Bridgeable audio outputs for increasing power to 100W per channel.
- Easily expands AD-8 speaker outputs.
- 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.

CP-1650 16 Channel Power Amplifier

Utilizing Cool Power technology to expand the capabilities of an AD-8 audio distribution system, the CP-1650 is perfect in residential and commercial installations where larger rooms need more speakers and areas such as an outdoor patio need to be added to an existing zone. Designed to be an easy and cost effective way to double the power of the AD-8 output, having the additional 50 watts per channel is the solution to those sophisticated audio distribution installations. If the power needs even more boost, you can bridge two channels with a simple flip of a switch, for a whopping 100 watts per channel.

The CP-1650 is designed to offer greater flexibility, especially in larger installations. Unique features, including looped audio outputs, a 12VDC trigger out and IR pass through, make it easy to cascade multiple amplifiers together. Input level adjustments provide a tremendous amount of control over the audio in each room, keeping the big rooms full of sound and the smaller rooms from blaring. Discrete power control options include IR, two-way RS-232 or a voltage trigger input.

RTI Control Systems

With RTI control systems, audio is just the beginning. Imagine every aspect of your environment working in complete harmony – from audio and video to lighting, security, temperature and more. Such scenarios are only made possible from an audio distribution system backed by a professional grade control system. Thanks to the efficient engineering that defines the CP-1650, there is no reason to limit yourself to a system that was designed only for music – with RTI so much more is possible.



CP-1650 Rear View

- RS-232, IR or voltage trigger power control.
- Loop in/Loop out connections for simple addition of speakers.
- Input level adjustments for each channel.
- Bridging outputs increases power to 100W/channel.

Call 952-253-3100

www.rticorp.com



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

Other RTI Products & Accessories

RTiPanel	Mobile Device Control Application
Virtual Panel	PC Control Application
SURFiR	Companion Remote (for tablets/phones)
T1-B	Universal System Controller
T2-B	Universal System Controller
T2-Cs+	Universal System Controller
T2-C+	Universal System Controller
T3-V+	Universal System Controller
T4	Universal System Controller
U2	Weather Resistant Controller
RKM-1	In-Wall Multi-Room Audio Keypad
RK1	In-Wall Keypad Controller
RK2	In-Wall Touchscreen Controller
RK3-V	In-Wall Touchscreen Controller
KX-7	In-Wall Touchscreen Controller
RK10	In-Wall Touchscreen Controller
RP-1	Remote Control Processor
XP-3	Remote Control Processor
XP-6	Remote Control Processor
XP-8	Remote Control Processor
AD-4	Distributed Audio System
AD-8	Distributed Audio System
CP-450	4 Channel Amplifier
RTiDock	Apple iPod® Dock
CB-8	In-wall Connecting Block
CM-232	Serial Communication Module
CPB-1	Control Port Connecting Block
ECB-5	IR Emitter Connecting Block
ESC-2	Ethernet Serial Converter
IR-PRO	Professional IR Capture System
PCM-8	Port Control Module
RCM-4	Ethernet Relay Control Module
RCM-12	Relay Control Module
RM-433	RF Receiver
viRsa Mouse	IR Emitter
VPS-1	Voltage Power Sensor
ZB-PRO	Professional Network Management Tool
ZM-24	Transceiver Module