



Product Guide

D-Series Amplifiers



D1650
16 Channel Amplifier
(Shown with Rack Ears)



D850
8 Channel Amplifier
(Shown with Rack Ears)

The Russound Difference

Professional multichannel amplifiers like the Russound D-Series are only available through trained installation professionals, offering our customers the exceptional audio quality and intuitive system operation that they expect and deserve.

What sets the D-Series amplifier apart is:

- Advanced, cool-running digital amplification
- Independent input option for each audio channel
- Each stereo pair is bridgeable for a powerful 160w of output
- Independent 12v trigger input and output options per stereo pair
- Global 12v trigger input/output
- Audio Sensing with adjustable time delay



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The Technology

Cool-running Class D digital amplification

Russound's D-Series amplifiers use a high quality Class D amplification

Class D amplification means that Russound amplifiers provide efficient audio reproduction with low distortion levels, lower operating temperature, smaller size, and lower overall product weight than comparative analog amplifiers

Bus Input with Individual Channel Input Options

Russound's D-Series amplifiers offer a global bus input with a loop output as well as channel-specific inputs

Installers have the option to use the D-Series amps as a standard amplifier, taking one stereo input signal and distributing it to up to 8 stereo zones of audio, but they also have the option of using each amplifier channel individually. For example, a D1650 could power a Dolby® Atmos 7.1.2 system with 7 powerful 160w channels and 2 at 50w, all from a single lightweight chassis

12v Triggers

Russound's D-Series amplifiers have both global in/out 12v triggers as well as zone-specific in/out triggers. The flexibility to turn on the entire amplifier or only specific zones as needed gives installers additional control options to automate

KEY FEATURES

Rack-mountable

Rack-mount ears are included in the box

Everything is included in the box to use the D-Series amplifiers as either table-top installations, or as a 2U rack-mount installation

Bridgeable

Channels are organized into stereo pairs called zones. Each pair can be bridged to give a powerful 160w @8 ohms. Being able to bridge channels allows an installer to use more power in larger rooms or in outdoor spaces to provide the optimum sound coverage

Multiple Turn-On Options

Easily configure the D-Series amplifiers to activate with a global 12v trigger, with a local 12v trigger, or using their own robust audio sensing circuitry to turn on as needed

Certified to UL Standards

The D-Series amplifiers are ETL®- listed by Intertek to conform to applicable UL standards, for installation confidence and compliance with applicable building codes

Add Impedance Matching Volume Controls

The digital design of the D-Series amplifiers works easily with all impedance matching volume controls



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Key Features

Gold-plated RCA Jacks

All RCA connectors on the Russound D-Series amplifiers are gold-plated, for superior, long-lasting connections

Removable, Screw-down speaker terminals

Easy-to-use, removable connectors allow an easier wiring job, faster installation and service, and the screw-down terminals guarantee a reliable connection that will last for years. Up to 14ga wire can be used with these connectors

Individual Channel Gain Controls

Each channel of the Russound D-Series amplifiers can be adjusted with its own gain control, allowing fine tuning for the particular source, or for the particular audio zone to adjust the sound level to match the space's needs

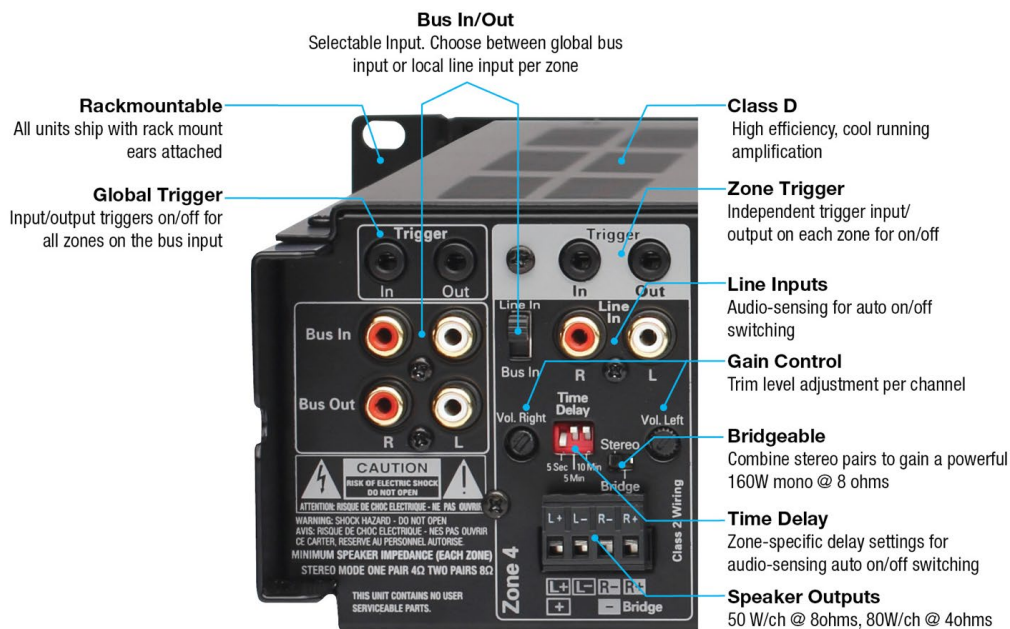
4 Ohm Stable Design

Each channel is stable to 4 ohms, meaning that an installer can use a pair of 8 ohm speakers for each channel if desired. At 4 ohms, the D-Series Amplifiers output 80w per channel

Trusted 2-year warranty

Russound D-Series amplifiers offer a generous 2-year limited warranty on all parts and labor. Russound customers are looking for a long-lasting product that they can trust for their homes and Russound D-Series amplifiers are ready to meet the challenge

Product Features





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D850
8 Channel Amplifier



D1650
16 Channel Amplifier

Product Comparison

General specifications	D850	D1650
Suggested Retail Price	\$999.00	\$1,679.00
Number of Channels	8	16
Number of possible bridged channels	4	8
Voltage Trigger Turn-on	Yes, global and per zone	Yes, global and per zone
Audio Sense Turn-on	Yes, per channel	Yes, per channel
Gain Controls	Yes, per channel	Yes, per channel
Minimum Required Impedance	4 ohms	4 ohms
Input Options	Global and channel-specific	Global and channel-specific
Loop Out Options	Global Only	Global Only
Wire Gauges Accepted	Up to 14ga	Up to 14ga
Audio Sense Delay Options	5 sec, 5 min, 10 min	5 sec, 5 min, 10 min
Voltage Trigger	12v DC	12v DC
Dimensions	16.81" W x 3.46" H x 16.14" D (42.7 x 8.8 x 41.0 cm)	16.81" W x 3.46" H x 16.14" D (42.7 x 8.8 x 41.0 cm)
Shipping Weight	19lbs (8.6kg)	22.1lbs (10kg)
Parts and Labor Warranty	2 years	2 years
Audio specifications		
Output at 8 ohms, Stereo	50w	50w
Output at 4 ohms, Stereo	80w	80w
Output at 8 ohms, Bridged	160w	160w
Frequency Response	20Hz to 20kHz +1.7/-1dB at 1W output into 8 Ohms	20Hz to 20kHz +1.7/-1dB at 1W output into 8 Ohms
Signal to Noise Ratio	>90dB A-weighted	>90dB A-weighted
Input Sensitivity – 4 ohms	600 mV for 80W @ 1 KHz 4 Ohm One Zone	600 mV for 80W @ 1 KHz 4 Ohm One Zone
Input Sensitivity – 8 ohms	700 mV for 50W @ 1 KHz 8 Ohm One Zone	700 mV for 50W @ 1 KHz 8 Ohm One Zone



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Recommended Accessories



ALT-126R
126-Watt Impedance
Matching Volume Control
SRP \$39.00



WALTX-2
Waterproof Outdoor
Volume Control
SRP \$135.00



RSF-620
6.5" Coaxial Speaker
SRP \$229.00 /pair



RSA-615
6.5" Directional Speaker
SRP \$219.00 /each

Glossary

What's it called	What it does	What's in it for me?
Trigger Input	Allows one device to activate another device when it is turned on	This means that the amplifier can be easily activated and deactivated by another device or, that it can easily activate or deactivate another device when it turns on or off
Audio Sense	Detects the presence of an audio signal	Allows an easy automation process for turning on an individual audio zone as needed while keeping the non-active zones turned off to conserve energy
Class D Amplifier	Allows a cooler, smaller amplifier design	Digital amplifier technology allows amplifiers to get smaller and more efficient while still providing great, smooth-sounding audio
Bus Input	A global input that can be used for any of the amplifier channels	Easily use a single source to provide the input for all of the channels of the amplifier. A loop-out is provided so that multiple D-Series amplifiers can be used to create systems for larger homes
Bridge Mode	Allows two adjacent audio channels to be combined for even higher power levels	Allows flexibility to provide even more power, up to 160w, for extra power for larger rooms, rooms with very high ceilings, or especially, outdoor zones where more power is needed



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The Story Behind Russound

The Russound Difference from Design to Installation



About Russound

Russound was founded in 1967 in Newmarket, NH. Russound was one of the first companies to embrace multiroom audio and became a leader in the custom installation channel.

Over the decades, Russound has sold millions of volume controls and our speaker selectors, amplifiers and multiroom distributed audio systems have become the industry standard. With systems that scale up to homes as large as 48 independent zones of audio, Russound has products that are sure to meet any installation need. While many of Russound's products are hidden from view, our award-winning user interfaces provide elegant, intuitive control options for homeowners to easily access their favorite music from anywhere in their home.

Throughout its rich history, Russound has received many industry awards for product design and has patented several key technologies for the custom installation field. While not a famous brand name to the typical consumer, Russound is one of the best known and trusted brands among audio installation specialists around the world.

The Russound website at www.russound.com has all of the core consumer-level information about our key products, while our registered dealers have additional access to installation manuals, tech tips, white papers, product imagery, and system wiring diagrams that are of use to any installation professional.