

Building Sound Solutions

D1650 Digital Amplifier

Product Brief

D1650 Digital Multi-Channel Amplifier

8 Zone 16 Channel 50 Watt



More power, more efficient, more robust...just more. For nearly 50 years Russound has been designing equipment to fit an installer's needs. When we went to redesign the next generation of our ubiquitous multi-channel amplifier line, we approached it from the ground-up. The result is the D-Series, a completely custom-built solution that has all the great features of historically popular multi-channel amps in a much more refined platform.

The Russound D1650 digital multi-channel amplifier offers the features custom installation professionals demand while offering a lighter weight, smaller chassis and more efficient Class D power. The feature-rich design of the D1650 is ideal for the demands of distributed audio systems and is also compatible with our Russound volume controls. The D1650's 16 channels are arranged in stereo pairs to provide discreet amplification and custom configurations for each of 8 zones.

Sound Quality

The D-Series amplifiers all have the same legendary Russound sound quality and installer-friendly features customers have

come to expect. Ultra-low distortion output (relatively unheard of in other multi-zone amplifiers) allows for clean, undistorted audio even at high listening volumes. A robust protection circuit provides efficient, safe and reliable operation under extreme conditions and protects each amplifier output channel.

Home Theater

The D-Series amps are even up to the rigorous demands of home theater applications, easily transforming into a powerful 160 watt X 8 channel monster (in bridged mode). You can also choose to individually un-bridge pairs for lower power applications such as Dolby Atmos® or surround speakers. As an example you could run a Dolby Atmos 7.1.2 system at 7 channels @ 160W and 2 channels @ 50W. That's Russound versatility!

Say "no" to the hum

Advanced triggering options allow the amps to operate on demand. Apart from the obvious energy efficiency, there is no amplifier hum on your speakers when the system isn't in use.

Bus In/Out Selectable Input. Choose between global bus

input or local line input per zone

Rackmountable -All units ship with rack mount ears attached

Global Trigger Input/output triggers on/off for all zones on the bus input



Class D High efficiency, cool running amplification

Zone Trigger Independent trigger input/ output on each zone for on/off

Line Inputs Audio-sensing for auto on/off switching

Gain Control Trim level adjustment per channel

Bridgeable Combine stereo pairs to gain a powerful 160W mono @ 8 ohms

Time Delay Zone-specific delay settings for audio-sensing auto on/off switching

Speaker Outputs 50 W/ch @ 8ohms, 80W/ch @ 4ohms

Technical Specifications			
Power Output	80W /Channel, 1kHz into 4 Ohms, 50W /Channel, 1kHz into 8 Ohms. Bridged: 160W, 1kHz into 8 Ohms		
Amplified Channels	16 channels, 8 independent zones		
Signal-to-Noise Ratio	>90dB A-weighted		
Frequency Response	20Hz to 20kHz +1.7/-1dB at 1W output into 8 Ohms		
Minimum Impedance	Stereo Mode 4 Ohms, Bridge Mode 8 Ohms		
Input Sensitivity	600 mV for 80W @ 1 KHz 4 0hm One Zone, 700 mV for 50W @ 1 KHz 8 0hm One Zone		
Input Impedance	>22k Ohms Line Input		
Trigger Inputs/outputs	Bus In /Out. Each Zone In/Out 12VDC 100mA		
Zone Line Input	Line or Bus select switch per zone		
Bridge Mode	Select Stereo or Bridge mode per zone 8 Ohm only		
Speaker Connectors	Detachable speaker terminals support up to 14awg wire		
Switching Delay	Three settings, 5 seconds, 5 minutes, 10 minutes		
Power Requirements	rements North American Model D1650: 100-120VAC 60Hz 1200W max, IEC C14 type connector with 3 terminal detachable power cord International Model D1650i: 220-240VAC 50Hz 1200W max, IEC C14 type connector with 3 terminal detachable power cords for UK, Europe, and Australia		
Fuse Rating	100-120V/T5A, 250V US & Canada, 220-230V/T2.5A, 250V Europe		
Dimensions	16.81"W x 3.46" H x 16.14"D (42.7 x 8.8 x 41.0 cm)		

Product Specifications				
Model Number	Part Number	Shipping Dimensions	Shipping Weight	
D1650	2800-536229	22.0"L x 21.0"W x 8.7"H (55.8 x 53.3 x 22.0 cm)	24 lbs (10.9 kg)	
D1650i	2800-536380	22.0"L x 21.0"W x 8.7"H (55.8 x 53.3 x 22.0 cm)	25 lbs (11.3 kg)	

22lbs. (10kg)

Weight

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