



A1650 AMPLIFIER

16 CHANNEL RESIDENTIAL AMPLIFIER

ORIGIN[®]

A C O U S T I C S

PREMIUM WHOLE-HOME AUDIO IN A SPACE-SAVING 1U AMPLIFIER.
POWERFUL MULTI-ZONE AUDIO. COMPACT BY DESIGN. HIGH-RESOLUTION PERFORMANCE FOR EVERY ROOM.
SCALABLE DISTRIBUTED AUDIO. ENGINEERED THE ORIGIN WAY.



APPLICATIONS

- INDOOR
- WHOLE HOME AUDIO WITH MULTIPLE AUDIO ZONES
- IN-CEILING & IN WALL SPEAKERS WITHOUT SUBWOOFER PAIRING



HIGH-RESOLUTION WHOLE-HOME AUDIO



EIGHT-ZONE 1U AMPLIFICATION



EXPANDABLE MULTI-AMPLIFIER ROUTING



EFFICIENT CLASS D PERFORMANCE



SMART TRIGGER & AUDIO SENSING POWER



BRIDGEABLE HIGH-POWER OUTPUTS

Designed to seamlessly power Origin Acoustics architectural loudspeakers, the A1650 delivers refined, high-resolution sound across multiple zones with the flexibility and performance today's custom installations demand. Engineered in a compact 1U chassis, the A1650 maximizes rack efficiency while providing powerful, scalable audio distribution throughout the home.



PLEASE VISIT [DOCS.ORIGINACOUSTICS.COM](https://docs.originacoustics.com)
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INFORMATION FOR THIS PRODUCT.

ORIGIN ACOUSTICS
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THE HIGH FIDELITY WHOLE-HOME AUDIO PERFORMANCE SOLUTION



RESIDENTIAL



8 ZONES



16 CHANNELS



EXPANDABLE MULTI-AMPLIFIER SYSTEMS

DIMENSIONS WITHOUT FEET (H X W X D): 1.7" x 17.2" x 12.7" (43.7mm x 436.0mm x 323.0mm)

DIMENSIONS WITH FEET (H X W X D): 1.75" x 17.2" x 12.7" (44.5mm x 436.0mm x 323.0mm)

HIGH-RESOLUTION WHOLE-HOME AUDIO PERFORMANCE

Engineered to deliver detailed, dynamic sound that perfectly complements Origin's architectural loudspeakers.

EIGHT-ZONE AUDIO DISTRIBUTION IN A COMPACT 1U CHASSIS

Powerful multi-room performance in a space-saving design optimized for clean rack installations.

FLEXIBLE STEREO OR BRIDGED MONO CONFIGURATION

Configure channels for higher-powered mono output when additional performance is required.

EXPANDABLE AUDIO DISTRIBUTION ACROSS MULTIPLE AMPLIFIERS

Easily scale shared multi-amplifier audio systems using integrated global bus input and output routing.

EFFICIENT, COOL-RUNNING CLASS D AMPLIFICATION

Advanced Class D architecture delivers reliable, energy-efficient performance with minimal heat.

SMART POWER MANAGEMENT WITH TRIGGER & AUDIO SENSING

Flexible power control options simplify integration with modern control systems.

SIMPLIFIED SETUP

Installer-friendly controls for source selection, stereo/mono configuration, and channel level adjustment streamline commissioning and calibration.



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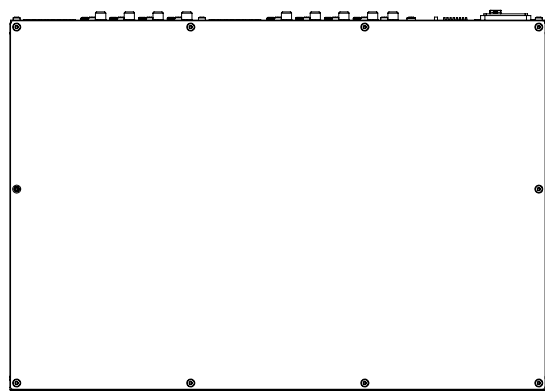
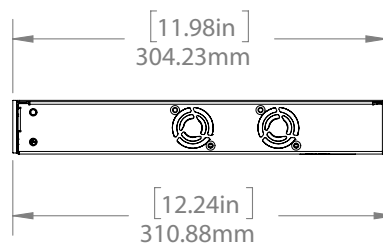
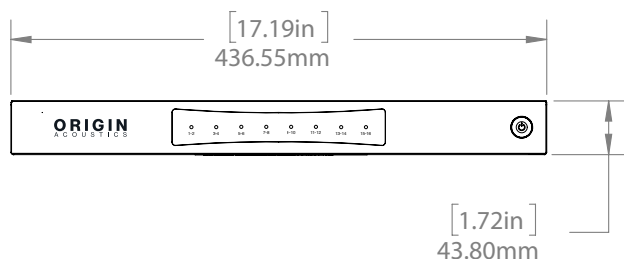
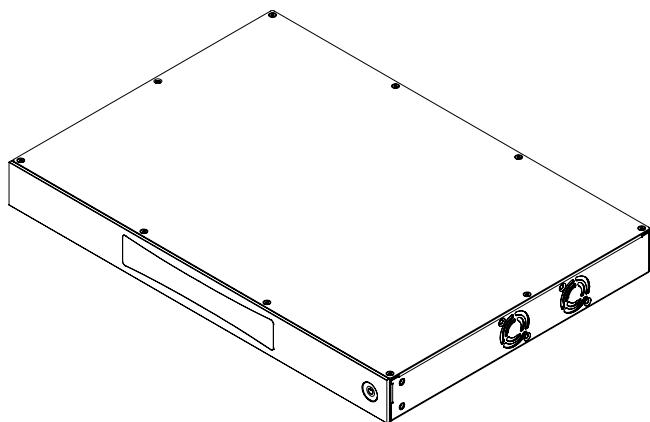
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THE HIGH FIDELITY WHOLE-HOME AUDIO PERFORMANCE SOLUTION

LINE DRAWINGS



SYSTEM PAIRING

Pair with all Origin Acoustics speakers for a seamless, optimal listening experience



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PERFORMANCE

SPECIFICATION	A1650
CONNECTIVITY & CONTROL	
Analog audio input	16 x RCA (Single Ended)
Stereo analog global output	2 x RCA (Single Ended) (global input looped to global output)
Speaker output	Phoenix block connectors, accommodates up to 12AWG wire
12V trigger control	1 x 3.5mm (in) • 1 x 3.5mm (out)
Power	Standard IEC
Global input select	8 x 2-position dip switches
Bridge/Mono select	8 x 2-position dip switches
Power Mode select	1 x 3-position switch – always on, 12V, auto sense
POWER (1kHz, 20ms burst, 2 channels driven, 0.5% THD max)	
Rated Power	50W (8Ω) & 110W (4Ω) *
Rated Power (8Ω Bridged, one zone driven)	185W
Idle Power Consumption	56W (191.1 BTU/h)
Stand-by Power Consumption	0.39W (1.33 BTU/h)
Max Power Consumption	252W (859.9 BTU/h) (at 1/8 power all channels driven (8Ω))
Power supply	Universal Mains 100–240VAC 50-60Hz<0.1%
PERFORMANCE	
Frequency Response	20Hz-20kHz +/-0.5dB, at 1/8th power, all loads
THD+N (max), at rated power, 20-20kHz	<0.1%
Signal to noise ratio (min), A-weight, 20-20kHz, 8Ω mode	>100dB
Crosstalk between any zones, at 1/8th power	-80dB
Minimum output impedance	2.7Ω
Analog input impedance	20kΩ
Signal sense, wake up level	1.75 mVrms
Max undistorted analog input signal	4.6 Vrms
Fan noise, maximum, 1/8 power	50dBA SPL @ 1 meter

* Stable down to 2.7Ω



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