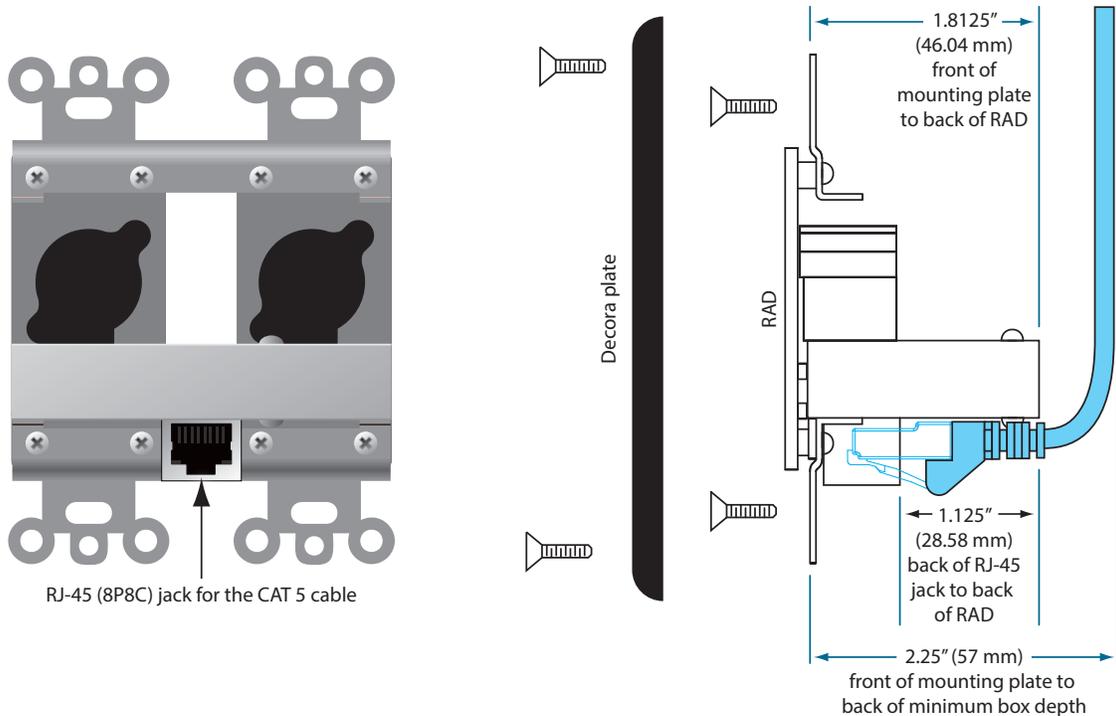## General RAD Description

The entire family of RAD models interface with HAL or Mongoose, for digital conversion at the wall. Each converts analog audio to and/or from 24-bit, 48 kHz digital audio. Shielded CAT 5e (or better) cable and termination transport four digital audio channels – two channels each direction – as well as power, ground and a communications channel, with status indicators at each RAD, HAL, EXP or Mongoose unit, and in Halogen or Tracker software. The host HAL or Mongoose auto-checks the CAT 5 crimp and verifies audio. All RADs are both "location-aware" and hot-swappable with 500-foot homerun connections (66% farther than Ethernet). Light sensors dim the RAD indicators in dark rooms. Labels can be made and printed from Halogen or Tracker software.

RAD4

A RAD4 provides two balanced line outputs on XLR connectors.

The RAD4 mounts in a standard 2-gang US electrical box. It is available in white, ivory, or black, with a matched Decora™ plate cover included. Order model RAD4W for white, RAD4I for ivory, and RAD4B for black.

RJ-45 (8P8C) jack for the CAT 5 cable

1.8125" (46.04 mm) front of mounting plate to back of RAD

Decora plate

RAD

1.125" (28.58 mm) back of RJ-45 jack to back of RAD

2.25" (57 mm) front of mounting plate to back of minimum box depth

Data Sheet-1

RAD Specifications

Parameter	Specification	Limit	Units	Conditions/Comments
Cable Length	500 feet / 153 meters			Shielded CAT 5e or better.
Signal Indicator	-50	typ.	dBFS	Unbalanced / balanced output, green LED, peak-reading
Overload Indicators	-0.5	typ.	dBFS	Unbalanced / balanced output, red LED, peak-reading
Balanced Line-Level Output Specs (Active Balanced)				
Output Impedance	600	1%	Ω	Each Leg
Max. Output Level	18	min.	dBu	<1% THD, Load = 10 kΩ
Dynamic Range	103	typ.	dB	re: 0 dBFS, 20 kHz BW, A-weighted
Frequency Response	10 to 22k	typ.	Hz	+0, -3dB
THD+Noise	0.017	typ.	%	@ 1 kHz, 20 kHz BW, Output = -6 dBFS
Unit				
Conformity	CE, FCC			
Size	4.1″H x 3.1″W x 2.1″D			10.4 x 7.9 x 5.4 cm
...Weight	4.7 oz			133 g
......Shipping	11 oz			312 g

All features & specifications subject to change without notice. 1-2014