

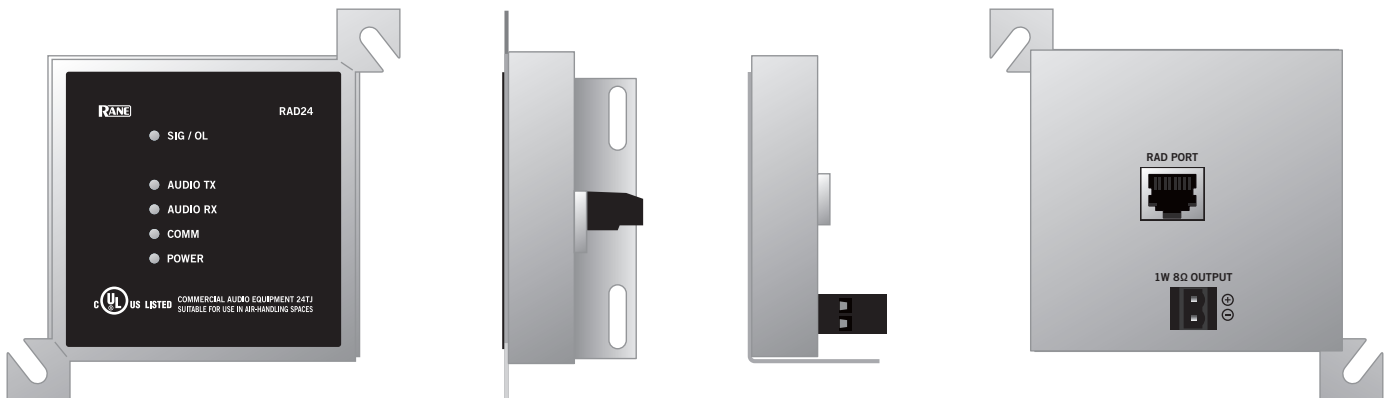
General RAD Description

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.

RAD24

A RAD24 provides one audio output channel that is a one-watt plenum-rated class-D amplifier which directly drives an 8 Ω loudspeaker.

The RAD24 installs in a U.S. 4-square gang box, or the tabs can be removed and the RAD can be mounted to a ceiling loudspeaker’s 70/100V mounting holes (replacing the transformer) or to any flat surface. The RAD 24 is only available in black and metal as shown. The size including the removable tabs for box mounting is 4" x 4" x 1.35" (10.2 x 10.2 x 3.5 cm). The size with the tabs removed for flat surface or speaker mounting is 3.1" x 3.1" x 1.3" (7.9 x 7.9 x 3.3 cm). The RAD24 is plenum rated UL 2043.



RAD24

AMPLIFIER



RAD24 Specifications

Parameter	Specification	Limit	Conditions/Comments
Amplifier Output	1 Channel		Class D, full bridge, current limited
...Connector	Euroblock		2-pin, 5 mm pitch, black
...Wire Gauge	10 AWG	max	
...Maximum Output Power	1 W (0 dBW)	max	1 kHz, 0 dBFS, 8Ω, cable = 500 feet, THD < 1%
...Maximum Output Level	11.2 dBu / 2.83 Vrms		1 kHz, 0 dBFS, 8Ω, cable = 500 feet, THD < 1%
...Frequency Response	20 Hz - 20 kHz, +0 / -1 dB		0 dBFS, 8Ω
...THD+N	0.1%	max	1 kHz, 0 dBFS, 8Ω
...Dynamic Range	80 dB	typ	20 kHz BW, re: 11.2 dBu, 8Ω
...Power Taps	5 selections		1, 1/2, 1/4, 1/8, 1/16 W into 8Ω
Ambient Room Temperature	104 °F / 40 °C	max	Maximum external loading
Cable Length	500 feet / 153 meters		Shielded CAT 5e or better.
Signal Indicator	-50	dBFS	Green LED, peak-reading
Overload Indicators	-0.5	dBFS	Red LED, peak-reading
Unit			
Conformity: UL	UL 2043		File number: E193164 (plenum rated)
...EMC	2004/108/EC, 2002/96/EC, 2002/95/EC. EN55103-1:2009, EN55103-2:2009		
...FCC	Part 15B		Class B Device
Size: with mounting tabs	4.0"H x 4.0"W x 1.3"D		10.2 x 10.2 x 3.3 cm (fits in 4" US electrical box)
...without mounting tabs	3.1"H x 3.1"W x 1.3"D		7.9 x 7.9 x 3.3 cm (mount on loudspeaker or flat area)
Weight	6.4 oz		182 g
...Shipping	10 oz		263 g



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