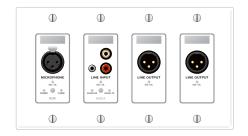


MIC INPUT / MONO'ED LINE INPUT / DUAL LINE OUTPUTS







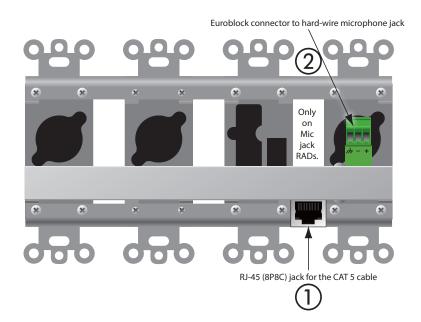
General RAD Description

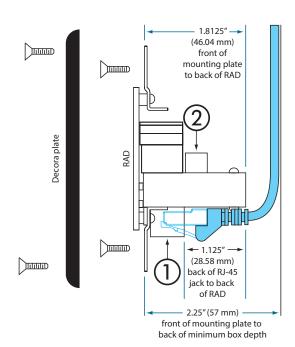
The entire family of RAD models interface with HAL or Mongoose, for digital conversion at the wall. Each converts analog audio to and/or from 24-bit, 48 kHz digital audio. Shielded CAT 5e (or better) cable and termination transport four digital audio channels – two channels each direction – as well as 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 autochecks 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.

RAD14

A RAD14 provides one microphone input on an XLR connector, one consumer line input on 3.5 mm TRS and RCA connectors (all line inputs are summed together), and two balanced line outputs on XLR connectors. 24 V phantom power can be activated for the microphone input in software. A Euroblock connection on the back of the RAD allows a hard-wired mic input.

The RAD14 mounts in a standard 4-gang US electrical box. It is available in white, ivory, or black, with a matched Decora™ plate cover included. Order model RAD14W for white, RAD14I for ivory, and RAD14B for black.





MIC INPUT / MONO'ED LINE INPUT / DUAL LINE OUTPUTS



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
Microphone Input Specs (Both XLR & Euro jacks)				
Input Impedance	2.16 k	1%	Ω	Balanced, 1.08 k + 1.08 k
Max. Input Level	-17	min.	dBu	Balanced, Gain = 26 dB, <1% THD
Equivalent Input Noise	-121	typ.	dBu	20 kHz BW, Rs = 150 Ω, Gain = 26 dB
Dynamic Range	98	typ.	dB	re: 0 dBFS, 20 kHz BW, A-weighted, Gain = 26 dB
CMRR	-70	typ.	dB	Rs = 150 Ω , 1 kHz, Gain = 26 dB
Frequency Response	30 to 20k	typ.	Hz	+0, -3dB, At All Gain Settings
THD+Noise	0.010% typ. @ 1 kHz, 20 kHz BW, Rs = 150 Ω, Output = -6 dBFS, Gain = 26 dB			
Gain Range	26 to 60	typ.	dB	In 1 dB Steps
Phantom Power	+21	1%	V	10 mA Maximum Per Mic
Impedance	1.21 k	1%	Ω	Each Leg
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
Unbalanced Line-Level Input Specs				
Input Impedance, Mono	20 k	1%	Ω	(RAD2, RAD11 & RAD14)
Max. Input Level, Mono	6	min.	Vrms	<1% THD (RAD2 , RAD11 & RAD14)
Dynamic Range	96	typ.	dB	re: 0 dBFS, 20 kHz BW, A-weighted
Frequency Response	10 to 22k	typ.	Hz	+0, -3dB
THD+Noise	0.005	typ.	%	@ 1 kHz, 20 kHz BW, Rs = 150 Ω, Output = -6 dBFS
Unit		1	1	
Conformity	CE, FCC			
Size	4.1"H x 6.7"W x 2.1"D			10.4 x 17.0 x 5.4 cm
Weight				247 g
Shipping Size	I I			24.4 x 15.2 x 8.1 cm
Weight	1 lb 1 oz (17.3 oz)			489 g