

RKB Series Eight Channel Power Amplifiers

RKB-850, RKB-D850, RKB-8100, RKB-D8100 Version 2



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Rotel has been designing and manufacturing award-winning power amplifiers for over 50 years.That considerable expertise has now been applied to a new generation of rackmount custom installation amplifiers that are sure to set standards for performance, reliability, and ease of installation.



RKB-850 RKB-D850

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The amplifiers come in two eight-channel configurations at 8 x 50 watts and 8 x 100 watts RMS per channel into 8 ohms, all channels driven. All RKBs can double that output into 4 ohms as a result of their sophisticated, efficient Class D design. The amplifiers are rugged and extremely reliable, but Rotel has taken additional further precautions to maximize service life by utilizing dual thermostatically controlled fans to exhaust heat away from the output modules and power supply.

The Digital versions (Designated by a "D" in the nomenclature) feature four TOSlink digital inputs with individual stereo DACS for each pair of channels in addition to the four analog inputs. When a digital audio source is detected on the TOSlink input the unit will automatically switch to the digital input. If an analog input is connected, that source similarly will be detected. No user configuration is required. Each digital input supports up to 24 Bit/192 kHz LPCM audio.

All RKB amplifiers share common features such as:

Improved input linking. In the previous units, zones could only be linked from A. Now, a second input can source from any 'upstream' input - so B can source from A, C can source from B and D can source from C. You can create four individual stereo zones, two dual zones or three common zones plus an individual zone. In other words, two Sonos Connects (for instance) might be divided between kitchen and patio (A+B zones) and Master Bedroom and Bath (C+D).

Ideal for use with Sonos Connect.

The new RKB amplifiers are not only improved in general functionality and flexibility, more importantly, they can now be tied into Sonos based systems seamlessly. A 3-way switch located on the rear of the amplifiers controls and operates Signal Sensing for both analog and digital inputs (on the "D" versions). In the case of the "D" versions, the signal sense is applied to the circuit post-DAC so it is not fooled by a clock signal. The amplifier stages and certain other circuits are shut down, but the DAC circuit needs to remain on for signal sensing.



RKB-8100 RKB-D8100

Additional features:

- A rear panel RS232 connection allows automation systems to provide control and feedback. The RKB amplifiers also include four front panel trim pots, which allow easy level adjustment to balance zones.
- Never Turn Off The RKB will always be on, never go into standby. (Obviously the amplifier can be turned off completely using the on/off button on the front panel).
- Trigger on/off when the RKB receives a 12 volt trigger, it will turn on.
- NOTE RS232 On/Off Can also be turned on or off via RS232 command.
- As a safety feature and regardless of mode the amplifier will monitor its temperature. If it rises above a determined level the fans will come on until the unit has cooled down then return to standby operation.
- · 5-way speaker binding posts
- Buffered analog audio pre-output to connect additional RKBs,
- IEC power receptacle with detachable cord.
- 2U height takes up a minimal amount of rack space and the RKBs can be stacked together without the need for rack spacers to maximize rack efficiency.

Choose either the analog-only input models or the digital plus analog input versions as suits the system configuration. In either case, be prepared for an extraordinary audio experience.



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Continuous Power Output (20Hz-20kHz, <0.1% THD, 8 ohms) **Total Harmonic Distortion** (20Hz-20kHz, 8 ohms) Intermodulation Distortion (60 Hz : 7 kHz, 4:1) **Damping Factor** Input Impedance / Sensitivity Amplifier Gain **Frequency Response** Signal to Noise Ratio (IHF A) Crosstalk / Separation Speaker Impedance **Digital Section** Signal to Noise Ratio (IHF A) Input Sensitivity **Optical Digital Signals Power Requirements:** USA: EC: **Power Consumption**

Dimensions (W x H x D)

Front Panel Height Weight (net) Accessories Included

RKB-D850

50 watts / channel (8 ch driven)	100 watts / channel (8 ch driven)
< 0.08%	< 0.08%
< 0.08%	< 0.08%
 > 150 50k ohms / 0.6V 30 dB 20Hz - 20kHz +0dB/-1.4dB 108 dB > 60 dB 4 ohms minimum 	> 150 50k ohms / 0.9V 30 dB 20Hz - 20kHz +0dB/-1.4dB 108 dB > 60 dB 4 ohms minimum
95 dB -10 dBFS SPDIF LPCM (up to 192kHz 24bit)	95 dB -7 dBFS SPDIF LPCM (up to 192kHz 24bit)
120 Volts, 60 Hz 230 Volts, 50 Hz 150 watts Idle: 45 watts Standby: < 0.5 watts 430 x 97 x 424 mm (17 x 3 7/8 x 16 3/4 ins) 2U (88.1mm, 3 1/2 ins) 9.3 kg, 20.5 lbs. Rack Mount Kit	120 Volts, 60 Hz 230 Volts, 50 Hz 300 watts Idle: 80 watts Standby: < 0.5 watts 430 x 97 x 424 mm (17 x 3 7/8 x 16 3/4 ins) 2U (88.1mm, 3 1/2 ins) 9.6 kg, 21 lbs. Rack Mount Kit

RKB-D8100

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