

# RMX

## PROFESSIONAL POWER AMPLIFIERS Preliminary Specifications

The new RMX Series amplifiers from QSC offer true professional-quality performance at a new affordable price. Three models range in power from 430 watts to 1200 watts per channel at 2 ohms, all in a compact chassis only 2 rack spaces high and less than 16" deep. RMX amplifiers include a comprehensive set of features: XLR and 1/4" balanced inputs and Speakon™ and binding post outputs allow users a convenient choice of connectors, while user-defeatable clip limiters and selectable low-frequency filters optimize sonic performance.

Model	8Ω	4Ω	2Ω*	Bridged 4Ω
RMX 850	200	300	430	830
RMX 1450	280	450	700	1400
RMX 2450	500	750	1200	2400

1 kHz, 0.1% THD    \*1 kHz, 1% THD



### RMX Features

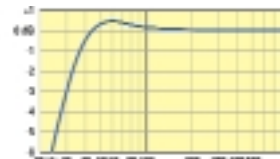
- Compact size—up to 2400 watts in 2 rack spaces
- Professional quality performance - incorporates road-proven QSC designs
- High-current toroidal transformers for greater two-ohm power and low noise
- Independent user-defeatable clip limiters reduce distortion
- Selectable low-frequency filters (30 Hz or 50 Hz) protect speakers and increase headroom
- Balanced 1/4" (6.3 mm) TRS, XLR, and barrier strip inputs
- Binding post and Neutrik Speakon™ outputs
- Front mounted gain controls for easy access
- Signal and Clip LED indicators to monitor performance
- Independent DC and thermal overload protection on each channel automatically protects amplifier and speakers
- 3-year warranty plus optional 3-year extended service contract

### Input Filter

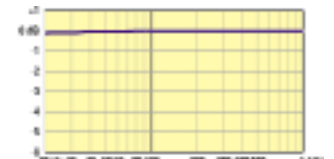
Boosts your system's response by matching the amplifier's range to your speakers. Prevents speaker bottoming and low-frequency muddiness. Each channel is separately adjustable: 50 Hz for most compact full-range speakers; 30 Hz for subwoofers and large full-range systems; and OFF for studio monitoring.



50 Hz for compact full-range speakers



30 Hz for subwoofers and large full-range systems



Full range for studio monitoring.

### Clip Limiter

When the RMX is pushed hard, the clip limiter automatically finds the exact point of overload and keeps the amplifier in its "Peak Zone," preventing severe distortion without reducing performance.

The low-frequency filter and clip limiter are separately adjustable for each channel.

### Variable Speed Fan

Rear-to-front air flow keeps amps and racks cool.



Cool air enters from the rear

Warm air exits through the front

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RMX SPECIFICATIONS					RMX 850	RMX 1450	RMX 2450
<b>Stereo Mode</b> (EIA: both channels driven)					<b>Continuous Average Output Power Per Channel</b>		
8 ohms	EIA	1 kHz	0.1%	THD	200 Watts	280 Watts	500 Watts
4 ohms	EIA	1 kHz	0.1%	THD	300 Watts	450 Watts	750 Watts
2 ohms	EIA	1 kHz	1%	THD	430 Watts	700 Watts	1200 Watts
<b>Bridge Mono Mode</b>					<b>Continuous Average Output Power</b>		
8 ohms	EIA	1 kHz	0.1%	THD	600 Watts	900 Watts	1500 Watts
4 ohms	EIA	1 kHz	1%	THD	830 Watts	1400 Watts	2400 Watts
<b>Signal to Noise (20 Hz-20 kHz)</b>					100 dB	100 dB	100dB
<b>Distortion (SMPTE-IM)</b>					Less than 0.01%	Less than 0.01%	Less than 0.02%
<b>Input Sensitivity @ 8 ohms</b>					1.15v (+3.4 dBu)	1.15v (+3.4 dBu)	1.23v (+4.0 dBu)
<b>Voltage Gain</b>					31.6x (30 dB)	40x (32 dB)	50x (34 dB)
<b>Output Circuitry</b>					AB	AB	Class H
<b>Current Consumption</b> (1/8 power pink noise @ 4Ω)*					5 A	7 A	10 A
<b>Weight</b>		<b>Net</b>			35lb.(15.9 kg)	40 lb. (18.2 kg)	44.5 lb. (20.2 kg)
		<b>Shipping</b>			41 lb. (18.6 kg)	46 lb. (20.9 kg)	50.5 lb. (23 kg)
<b>All models</b>					<b>All models</b>		
<b>Distortion (typical)</b>					Less than 0.03% THD, 4Ω & 8Ω		
20 Hz-20 kHz: 10 dB below rated power					Less than 0.03% THD, 4Ω & 8Ω		
1.0 kHz and below: full rated power							
<b>Frequency Response</b>					20 Hz-20 kHz: ± 0/-1 dB, -3 dB points: 5 Hz-50 kHz		
<b>Damping Factor (1 kHz and below)</b>					greater than 300 @ 8Ω		
<b>Input Impedance</b>					10 KΩ unbalanced, 20 KΩ balanced		
<b>Input Clipping</b>					10 Vrms (+22 dBu)		
<b>Cooling</b>					Continuously variable speed fan, back-to-front air flow		
<b>Connectors (each channel)</b>					Input: Active balanced; barrier strip, XLR and 1/4" (6.3 mm). TRS tip and XLR pin 2 positive Output: "Touch-proof" binding posts and Neutrik Speakon™		
<b>Controls</b>					Front: AC switch, Ch.1 and Ch.2 gain knobs Rear: 10-position DIP switch		
<b>Indicators</b>					PWR-ON: Green LED                      SIGNAL: Yellow LED (1 per channel) CLIP: Red LED (1 per channel)		
<b>Amplifier Protection</b>					Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads		
<b>Load Protection</b>					Turn-on/turn-off muting, AC coupling (850, 1450), triac crowbar (2450, on each channel)		
<b>Dimensions</b>					19" (48.3 cm) rack mounting, 3.5" (8.9 cm) tall (2 rack spaces), 15.9" (40 cm) deep (rack mounting to rear support ears)		
<b>Power Requirements</b>					100, 120, 230 VAC, 50-60 Hz		

\* @ 120VAC, both channels driven; multiply current by .5 for 230V units.

