



Four-channel Power Amplifier

RX9D

RX series



D Class Topology

- Two Separate Switching Power Supply

- Top Class Four-channel **DSP** from **DFM audio**

- Four Analog Input, Two **AES** Input

- Two **Ethernet** Connectors for Amplifier Control, Built-in Router

- **LCD** Indicator on the Front Panel

- Local Control from the Front Panel

- **MUTE** Buttons

- Forced Cooling

- Easily Removable Dust Filters

- 2U Height

- Signal, Clip and Limiter Indicators

- Detachable Power Cord (**PowerCon**)

- **XLR** Input and Line Output Connectors

- **SpeakON** Output Connectors

- Short Circuit Protection

- Thermal Protection

- Clip Limiter

- Electronically DC Speaker Protection

- High Mains Voltage Protection (included 400V mains)

- High Frequency Speaker Protection

- Soft Signal Start

The **RX9d** amplifier is designed for the most demanding live audio users, whether in touring rigs or fixed installations.

For those users, who need a combination of high performance amplifier with high-end integrated **DSP**, the **RX9d** amplifier is an ideal choice, offering high power, reliability and precision signal processing.

The amplifier is equipped with a flexible and powerful high-end **DSP** from **DFM audio**, Germany. The close integration of processing and amplification allows the **DSP** to monitor and better respond to amplifier behavior, making dynamics processing far more accurate and effective than that typically achieved with separate components. The onboard **DSP** offers four channels of crossover filters, parametric **EQ**, **FIR** filter and alignment delay – everything needed to optimize a loudspeaker system.

The processor settings can be controlled via **Ethernet** interface. Two **Ethernet** connectors and an integrated router allow you to connect many amplifiers in a chain without using any additional equipment.

For use in large installations, the processor has the tools for group control of many amplifiers simultaneously. The amplifier can be supplied with pre-formed library of passive speakers.

RX9d amplifier is based on a modern, high performance **D** class topology. This topology provides high efficiency, low heat generation, large output power and, together with a switching power supply, light weight and small dimensions. At the same time, the high switching frequency of the output stage (450kHz) provides sound quality comparable with the best analog amplifiers.

Rx9d amplifier have switching power supply. Each pair of channel is powered from separate power supply. This allows to continue working in case of failure of one of them.

The amplifier use forced cooling system with 2 powerful fans. Their intensity changes smoothly depending on the output stage temperature and resistance at ambient temperatures up to 50 degrees.

Specifically for use in hard touring conditions amplifier is equipped with reliable protection against high mains voltage. Even the connection to the ~400 V mains will not damage the amplifier!

To protect the amplifier from ingress of dust and foreign objects, amplifiers have a dust filter, made of polyurethane foam. The filter is located under the easily removable cover. Due to its structure, the filter material allows repeated washing and flushing.

The amplifier is equipped with a full set of modern protection systems. These include short circuit protection, thermal protection, DC and high frequency speaker protections. All protection systems are monitored by the control processor, built into each channel of the amplifier. Control processors carefully monitor the protection and management systems, which increase the reliability of the amplifier.

Model	RX9 D
Output Power* (2 Ohm)	4 x 2500 W
(2.7 Ohm)	4 x 2500 W
(4 Ohm)	4 x 2200 W
(8 Ohm)	4 x 1200 W
Peak Output Voltage	168 V
Frequency Response	20 Hz – 20 kHz
Total Harmonic Distortion	0.02 % (20 Hz – 20 kHz)
Slew Rate	60 V/μs
Damping Factor	600 (1 kHz, 8 Ohms)
Crosstalk	60 dB (1 kHz)
Signal-to-Noise Ratio	97 dB (unweighted)
Gain	35 dB
Input Impedance	10 kOhms (balanced)
Power Requirements	~230 V, 50/60 Hz
Weight	12 kg
Height	2U
Depth in Rack	442 mm
Dimensions**	482 mm (W) x 96 mm (H) x 444 (D) mm
DSP Functions	Crossovers, 20 PEQ per channel, delay up to 1.5 sec/ channel, RMS and Peak Limiters, two banks of FIR filter (500 tap each) per channel, speaker library (96 speaker), 92 user presets
DSP Parameters	SHARC DSP, 96 kHz sampling rate / 40 bit floating point ADC: 120 dB SNR , -100 dB THD/N +18 dBu Input Level DAC: 120 dB SNR , -104 dB THD/N +18 dBu Output Level

* Power at 230V mains voltage

**Height includes rubber feet (should be removed when installed in the rack)



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