



Datasat RA7300

7 Channel Power Amplifier



The Datasat RA7300 brings a new level of quality and flexibility to high-end home theatre and multi-channel music systems. Perfect for anything from small media systems to dedicated top of the line home cinemas or even to outfit an entire home or estate, it is perhaps the quietest and most powerful multi-channel amplifier available.

Super-quiet operations

The fully balanced differential design of the RA7300 doubles amplifier speed (slew rate) while reducing noise by 50%. Dual thermal sensors control very low speed fans with substantial heat sinks. The fan only operates when program material requires additional cooling to ensure fan noise is always masked by the content.

In addition, dual DC servos ensure DC offset is minimised and thermal track transistors maintain the amplifier at its optimum bias point independent of its temperature. The result is consistently low distortion and extremely quiet operation that provides highly accurate and refined music and sound stage reproduction.

Versatility and performance

The RA7300 is designed to be versatile. With a rated output of 300 watts RMS into seven channels at 8 ohms, the RA7300 delivers consistently excellent performance in any system. The Datasat RA7300 is designed to complement Datasat's RS20i high end audio processor.

> Key Features & Benefits

The quietest amplifiers available

Dual thermal sensors, one for each channel or channel bank, deliver a signal-to-noise ratio of 127dB.

Innovative modular design

Each amplifier channel is designed completes with power supply on a single printed circuit board, minimising crosstalk, noise and distortion.

Enhanced power

7 channels of 300 watts RMS power at 8 ohms. and 450 watts RMS at 4 ohms.

Thermal-independent operations

The parts within the RA2400 have no thermal limitations. It operate without current limiting.

Advanced circuitry

The RA7300 amplifier features a fully balanced differential topology that doubles amplifier slew rate and reduced noise by 50%.

Efficient standby

The RA7300 amplifier meets or exceeds all international standards for standby power consumption including the new 1/2 watt standard.

Extended connectivity

DB25 connectors with pass-through and channel select mate perfectly with the Datasat RS20i. The RA series also features balanced XLR.

Technical Specifications

Power Output

- 300 watts RMS x 7 channels @ 8ohms
- 450 watts RMS x 7 channels @ 4ohms

Frequency Response: 20Hz-20kHz, +0, -0.25dB

THD, 20Hz-20kHz: <0.05%

THD, 1kHz, rated power: <0.005%

IMD: <0.05%

Dual AC Cords

Channels

User selectable for any of 8 channels from DB25 input connector via rear panel gold-plated sealed DIP switches. Power Requirements

Power Bandwidth, 10Hz-80kHz: minus 0.6dB @ 80Hz

Voltage Gain: 27.1dB

Slew Rate: >40/us

Crosstalk @ 1kHz: >80dB

Input impedance: 50kΩ (Balanced, 25kΩ each leg)

Input Sensitivity: 2.16V

Circuit topology

Fully balanced design utilizing thermal track, current feedback and DC Servo.

Connectivity

Input: RCA unbalanced, XLR balanced, DB25 balanced

Output: 5-way binding posts, DB25 pass through

Remote Trigger Voltage: 3-24V

Signal-to-Noise ratio (20Hz-20kHz)

Reference rated output, 'A' weighed: >125dB

Reference rated output, unweighted: >123dB

Residual noise, 'A' weighed: <30 microVolts

Damping Factor: >200Hz to 2kHz

Dimensions

Fan cooled, 5 Rack Chassis

H/W/D: 22.23cm x 43.18cm (48.26cm with rack ears) x 53.34cm
Uses 5RU (Feet removed)

Weight: 123lbs

Weight shipping: 163lb

Power requirements: 120V, 60Hz & 230V, 50Hz

E&OE

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