



Description

The SET4344 family members are complete, stereo digital-to-analog output systems including interpolation, multi-bit D/A conversion and output analog filtering in a 10-pin package. The SET4344 family supports all major audio data interface formats, and the individual devices differ only in the supported interface format.

The SET4344 family is based on a fourth order multi-bit delta-sigma modulator with a linear analog low-pass filter. This family also includes auto-speed mode detection using both sample rate and master clock ratio as a method of auto-selecting sampling rates between 2 kHz and 200 kHz.

The SET4344 family contains on-chip digital de-emphasis, operates from a single +3.3V or +5V power supply, and requires minimal support circuitry. These features are ideal for DVD players & recorders, digital televisions, home theater and set top box products, and automotive audio systems. The SET4344 family is available in a 10-pin TSSOP package in both Commercial (-10 to +85 °C) and Automotive grades (-40 to +85 °C).

Feature

- Multi-bit Delta-Sigma Modulator
- 24-bit Conversion
- Automatically Detects Sample Rates up to 192 kHz.
- 105 dB Dynamic Range
- -90 dB THD+N
- Low Clock-Jitter Sensitivity
- Single +3.3 V or +5 V Power Supply
- Filtered Line-Level Outputs
- On-chip Digital De-emphasis
- Popguard™ Technology
- Small 10-pin MSOP Package