

MD/CD Digital Signal Processor

CXD2657R

Description

The CXD2657R is a playback-only LSI that performs digital signal processing of MiniDisc and compact disc with a single chip. It is equipped with 1-bit DAC and secondary LPF. This LSI is designed to be used in combination with the CXA2523AR.

Features

- MD signal processing + CD signal processing + CD shock resistant memory controller + DAC + LPF are integrated on a single chip.
- A single 4/6M DRAM is shared between MD and CD.
- CD TEXT data demodulation
- · Digital Out supporting 16/20 bits
- Master clock
 512 fs (22.5792 MHz)
- ATRAC decoder Adopting block floating

· Built-in DAC

Equipped with 8× oversampling digital filter, third-order 1-bit DAC, and secondary analog low-pass filter. Not only audio data from ATRAC decoder but external audio data (Pin 34 DATAI pin) can be used for built-in DAC.

- * Input word length: 16/20 bits
- * Functions: Digital attenuation (-∞, -60 to +6 dB)

Digital de-emphasis

Digital dynamic bass boost/treble boost (turnover frequency can independently be selected.)
Digital dynamics (compressor)
Zero data detection independently

for L ch and R ch

Applications

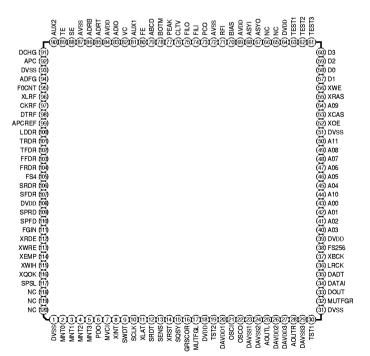
MiniDisc/compact disc players

Recommended Operating Conditions

Supply voltage
 Operating temperature
 VDD
 3.0 to 3.6
 V
 Topr
 -10 to +75
 °C

Block Diagram

(120-pin LQFP)



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