

# Single-chip MPEG1 Decoder

**CXD1856Q/R**

## Description

The CXD1856Q/R can decode all the layers of MPEG1 (system, video, and audio). This IC is equipped with CD-ROM decoder for video CD decoding. It can configure MPEG1 decoding system in combination with a 4M-DRAM and a control microcomputer.

## Features

- Variety of special video playback function
- Can be used for storing PSD of video CDs because CD-ROM decoding output can be transmitted to and stored in an external DRAM.
- Supports PAL high-definition image decoding of video CD with a single 4M-bit DRAM.
- Image data can be output in Y/Cb/Cr or RGB.
- 8-bit parallel/4-wire serial can be used for the microcomputer interface.

## Applications

- Video CD players
- Personal computer MPEG1 decoder boards

## Recommended Operating Conditions

- Supply voltage  $V_{DD}$   $3.3 \pm 0.3$  V
- Operating temperature  $T_{opr}$   $-20$  to  $+75$  °C

## Block Diagram

(120-pin QFP)

