

## W6640CF



# AUDIO/VIDEO POST PROCESSOR

## GENERAL DESCRIPTION

The W6640CF integrates a 16-bit stereo audio DAC, a sound processor, a 10-bit TV encoder and a 8-bit microcontroller into a single chip. The W6640CF acts as an A/V backend processor and a system controller for Video CD (VCD) and Super VCD player.

## FEATURES

- **Stereo Audio DAC**
  - Sampling Clock Rate: 44.1K, 48KHz
  - Master Clock Rate: 384 times of sampling rate
  - Stereo 16-bit linear PCM data input
  - Stereo Delta-sigma DAC built-in digital de-emphasis filter and analog low pass filter
- **Sound Processor**
  - Echo/Surround mode selection
  - 14-bit Sigma-delta A/D with 7KHz low pass filter
  - Up to 200ms delay time
  - Automatic sound detection for microphone input

## TV ENCODER

- NTSC-M, PAL-B, D, G, H, I, Nc, M encoding
- Standard CCIR601/ 656 input data
- Two 10-bit DACs, run at 2X pixel rate, provide Y,C and CVBS outputs
- *Brighteye* function to enhance the video quality in dark environment
- Power down mode for both/ individual two DACs

## VCD/SVCD Controller

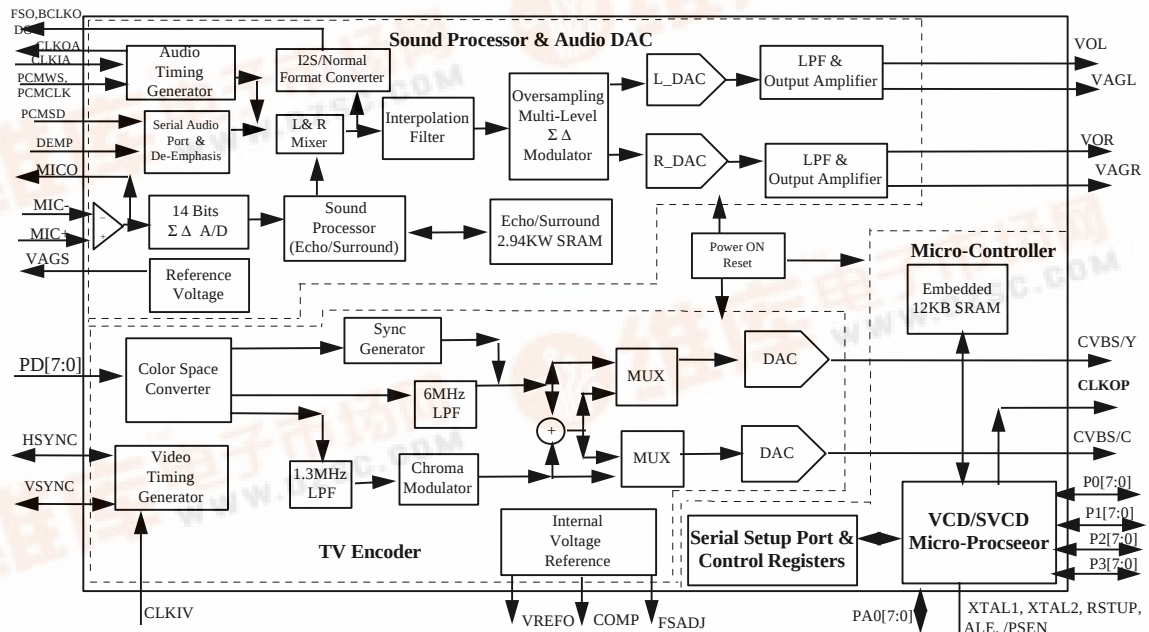
- 80C32 core, master clock rate up to 50MHz
- Build-in 12 K-byte data RAM
- Four 8-bit bidirectional ports
- NEC, PHILIPS, SANYO format remote control

## 100-pin PQFP package

## APPLICATIONS

W6640CF is designed for VCD and Super VCD players.

## FUNCTIONAL BLOCK



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