



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.

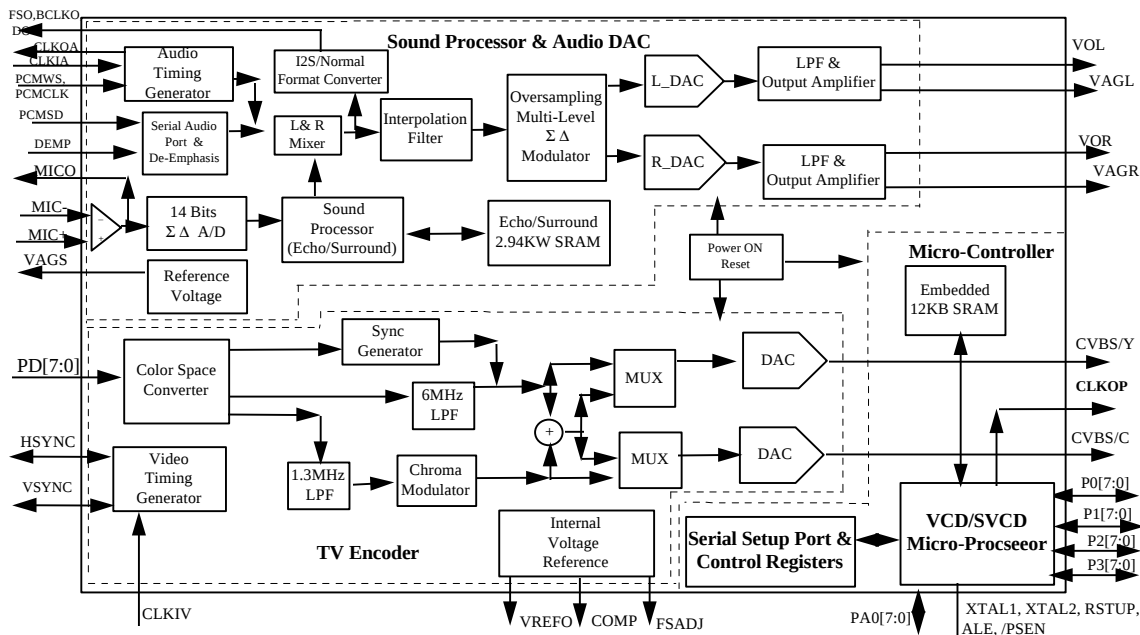
FEATURES

- **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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