

Product Brief

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Overview

Zoran's SupraHD 670 DVB-T reference design is a complete hardware and software solution for building 1080P flat-panel digital televisions targeted for the European market. The reference TV application software complies with the DVB-T broadcast standard.

The reference design is a full-featured 1080P FPD TV system that allows tuning, decoding, and displaying of digital terrestrial (DVB-T) and analog (PAL) broadcasts. At the heart of the reference hardware board is the SupraHD 670 DTV System IC.

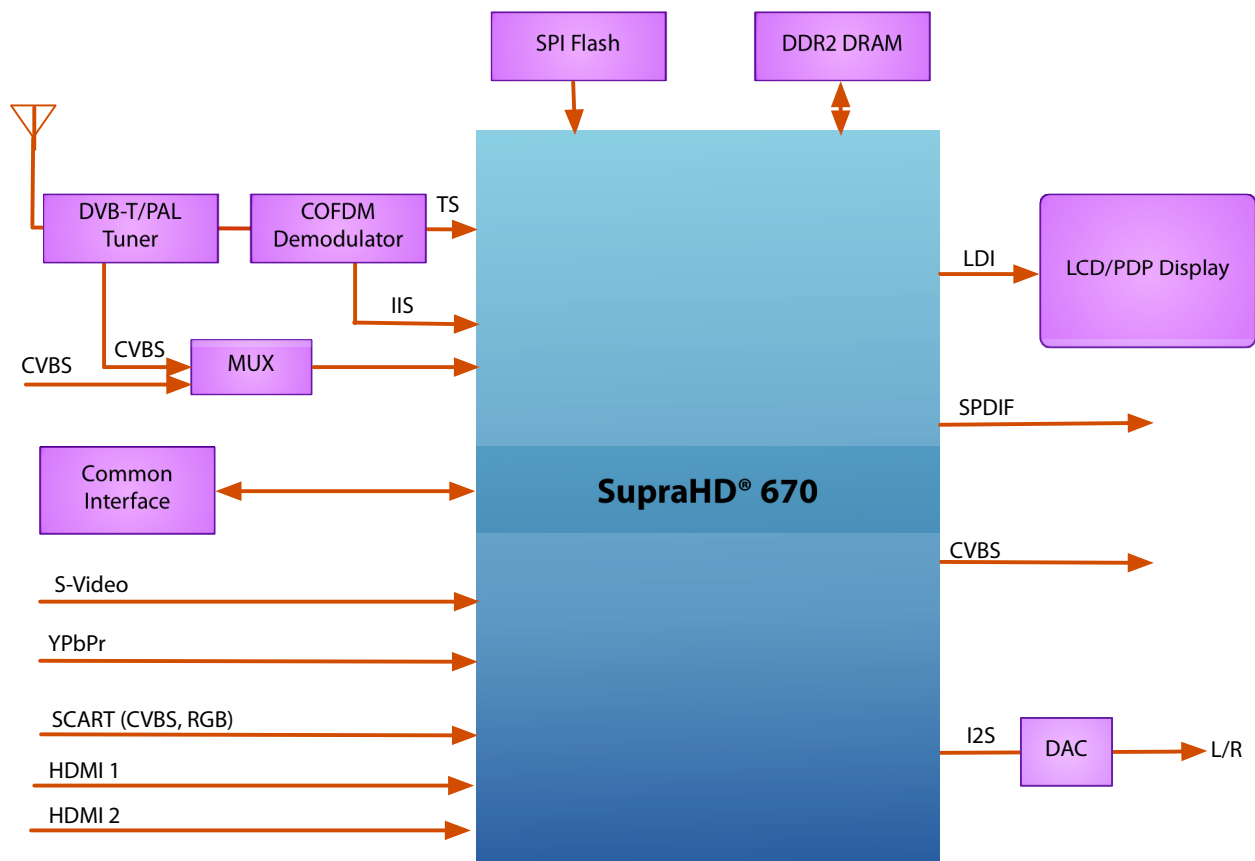
This chip is highly integrated, consisting of a MPEG-2 decoder, PAL video decoder, dual HDMI 1.3 interface, high-performance CPU, powerful graphics engine, video scaler, video enhancement processing, LVDS driver and various other peripherals necessary for building a DTV.

The reference hardware module accepts traditional video equipment interfaces, such as composite (CVBS), S-video (Y/C), component (YPbPr), SCART (CVBS, RGB), as well as more advanced interfaces, such as HDMI from newer DVD players. The reference hardware module can directly drive an LCD panel, output L/R audio to its internal speakers and SPDIF multi-channel output to an external audio receiver.

Key Hardware Features

- SupraHD 670 DTV System IC
- SPI Flash Memory
- DDR2 SDRAM
- DVB-T/PAL Tuner
- COFDM/PAL Demodulator
- Conditional Access: Common Interface
- Video In: CVBS, S-Video, Component, SCART (CVBS, RGB), HDMI
- Audio In: Left and Right Channels
- Video Out: LVDS, SCART (CVBS)
- Audio Out: Left and Right Channels, SPDIF
- IR Remote, I2C, and RS-232 interfaces

System Block Diagram



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SupraHD® 670 DVB-T

REFERENCE DESIGN

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System Software Features

- DVB-T application software
- Transport, Video Decode, Audio Decode, Graphics, and Display drivers
- Peripheral drivers for Tuner, Demodulator, HDMI, and Analog inputs

Package Contents

- LCD with DTV main board, front panel, and stereo speakers
- 110V-240V power adapter, remote control, and necessary cables
- Preloaded DVB-T compliant software on flash memory
- Complete documentation for reference design, software, and IC on a CD-ROM

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