Dual Digital Satellite PVR Set-Top-Box

Description

The THOMSON 4221C-REF20-DVBS reference design is a complete hardware and software solution for building a low-cost digital satellite receiver.

The design solution comprises a hardware platform, a complete TV application with full EPG for DVB Decoder/Player, which will be a cost effective, highly integrated and secure digital Set-Top-Box (STB).
Main Features

- 2 THOMSON Satellite Front-ends
- 2 separate LNB interfaces for power supply
- THOMSON 4221C Control Unit Core IC including MPEG2 decoding and display function, internal DAC teletext, UART interface
- 32 Mbytes DDR SDRAM
- 8 Mbytes flash memory for code execution and data storage
- 4 audio connectors (2 left / 2right)
- 1 SPDIF electrical interface
- 1 video connector (CVBS)
- 1 S-Video connector
- 2 SATA interfaces for HDD of PVR
- 1 smart card interface
- 10/100 base T Ethernet interface
- 2 Host USB 2.0 interfaces for external slave devices (@500mA)
- 1 RS232 implemented on a common SUB D connector for debug
- IR receiver supporting from 33 to 56 KHz
- Digit display, LEDs and keys
- Power supply (internal)

For more information on the THOMSON 4211C IC, THOMSON “ET – Embedded THOMSON” Software Solution for DVB decoders and other THOMSON products please refer to the corresponding product briefs.