



Full-Featured Development Platform

The CX24302 is integrated into a fully engineered STB reference design which also features Conexant's award winning CX24113 DVB-S tuner. This reference design provides a low-cost system bill of materials (BOM) and reduces overall development time and cost.

The hardware platform comes equipped with a fully functional Conexant software solution, including license free operating system, application software, support for third party middleware, EPG and all required drivers providing a complete STB solution. A mature and robust hardware abstraction layer is assured by re-use of core driver libraries developed on early generation ICs which also minimizes development time by ensuring reuse of software developed on previous Conexant platforms.

The reference development platform STB hardware is based on existing reference design platforms and is designed to be fully manufacturable.

Conexant's Product Portfolio

The company's broad portfolio of semiconductor products also includes client-side DSL and cable modem solutions, home network processors, broadcast video encoders and decoders, digital STB components and systems solutions, and dial-up modems. In addition to its IEEE 802.11a/b/g-compliant wireless local area network (WLAN) chipsets, software, and reference designs, Conexant offers a suite of networking components that includes solutions for applications based on HomePlugSM and HomePNATM. Additional products include a complete line of asymmetric and symmetric DSL central office solutions, which are used by service providers worldwide to deliver broadband data, voice, and video over copper telephone lines.

CX24302 Features

- MPEG-2 MP@ML video decoder supporting NTSC and PAL CCIR601 image resolution
- MPEG-1/MPEG-2 audio decoder
- MPEG-2/DVB, transport stream demultiplexing
- NTSC/PAL/SECAM TV encoder supporting simultaneous CVBS, YC, and RGB/YPrPb analog video output signals
- NTSC/PAL auto conversion
- 150 MHz 32-bit ARM946 CPU with 4 KB (I&D) caches
- 16-bit SDRAM support
- RS-232
- I2C
- 4/8 bpp on-screen display (OSD) support
- DiSEqC 2.x
- NDS ICAM support (optional)
- Smart card interface
- Sony/Philips Digital Interface Format (S/PDIF) Audio Output
- Dual DVB-CI support
- Integrated USB 2.0 with On-The-Go support
- Optional Macrovision[®] 7.1 support
- SmartDAA modem device support
- SCART support
- Programmable Flash memory Interface
- JTAG
- Infrared transmit/receive

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