



HD VIDEO/ GRAPHICS UMA SUBSYSTEM AND MIXER WITH DVI

BCM7035 FEATURES

- **ATSC-compliant, All-Format MP@HL MPEG-2 video dual decoder with personal video recording feature**
 - Dual channel decode with simultaneous standard definition (SD) display of each channel content
 - Single channel high definition (HD) decode with simultaneous display of both HD and scaled SD content
 - Simultaneous dual record, dual playback personal video recording (PVR) with encryption
 - Six on-chip video DACs
 - DVD playback
- **Dolby Digital (AC-3)/MPEG multichannel audio decoder with SPDIF output**
- **Stereo audio DACs**
- **Fully featured 3D graphics hardware accelerator**
- **NTSC/PAL analog video decoder**
- **NTSC/PAL/HD video encoder**
- **Bus bridge to memory, local bus, and PCI**
- **POD support including DVS 213 DES descrambler**
- **DVT and DC2-compliant transport demultiplexer with DVB, DES, and Multi2 descramblers**
- **Support for 64 PIDs and 64 section filters**
- **24-bit digital HD video input port and internal mixer**

SUMMARY OF BENEFITS

- **Provides a cost-effective solution for high definition and standard definition video and graphics systems common to cable and satellite applications**
- **PVR capability enables personal viewing and scheduling, video-on-demand (VOD), and VCR trick-mode effects on any video stream**
 - **Encryption ensures copy protection of recorded programming content**
- **Includes simultaneous high definition and standard definition analog output for watch and record capability**
- **Advanced 2D graphics system allows applications such as internet browsers and electronic program guides to deliver studio-quality text and graphics on television monitors**
- **Fully featured 3D graphics engine allows for multi-player gaming and 3D internet website acceleration**
- **PCI interface allows for direct connection of cost-effective SuperI/O devices**
- **High-performance DMA capability can be used for cable modem traffic**
- **Broadcom-developed device drivers enable rapid software development cycle**
- **Supports DVS POD requirements**
- **Supports embedded HDTV applications**

BCM7035 Advanced Video, Graphics, and Audio Subsystem with Bus Bridge

