





HIGH DEFINITION VIDEO UMA SUBSYSTEM WITH 2D GRAPHICS

BCM7020 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
- Advanced 2D/3D-effects graphics engine
 - Studio-quality text and graphics at HD resolution
 - Supports multiple layers and windows
- 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

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
- 3D effects create studio-quality screen transitions and adds a whole new dimension to electronic program guides
- PCI interface allows for direct connection of costeffective 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

BCM7020 Advanced Video, Graphics, and Audio Subsystem with Bus Bridge

