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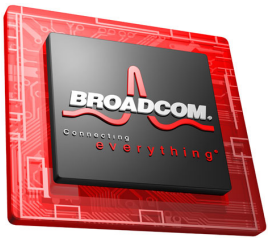
BCM7021 PRODUCT Brief



HIGH-DEFINITION VIDEO PCI SUBSYSTEM WITH 2D GRAPHICS

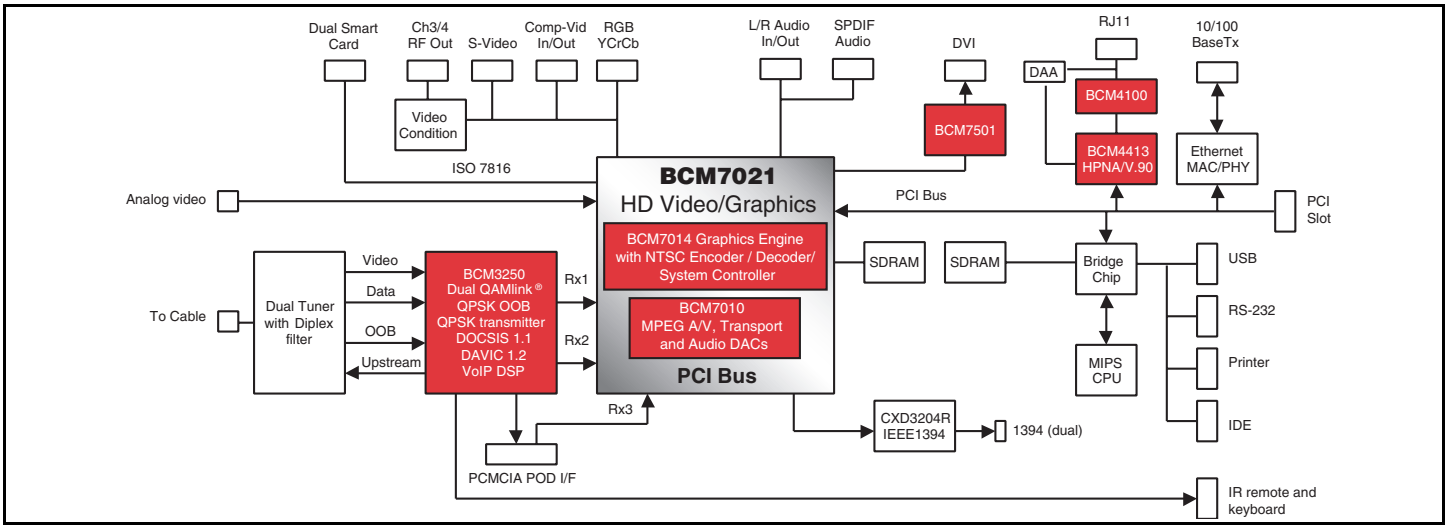
FEATURES

- **ATSC-compliant, All-Format MP@HL MPEG-2 video decoder**
  - Decodes up to four MP@ML video streams
  - Standard-definition output with reduced memory requirements
  - Simultaneous analog high-definition/standard-definition output
- **Dolby Digital (AC-3)/MPEG multichannel audio decoder with SPDIF output**
  - Dual I^2S bidirectional audio ports
- **Stereo audio DACs**
- **Advanced 2D/3D-effects graphics engine**
  - Studio-quality text and graphics at HD resolution
  - Supports multiple layers and windows
- **NTSC analog video decoder**
- **NTSC/PAL/HD video encoder**
- **PCI 2.1 compliant**
- **POD support including DVS 213 DES descrambler**
- **DVB and DC2-compliant transport demux with DVB and DES descramblers**
- **Simultaneous CCIR-656 inputs and outputs**
- **Support for 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.**
  - Includes standard definition with reduced memory mode
- **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 add a whole new dimension to electronic program guides.**
- **Personal video recorder capability supports VCR-like functions via a hard disk.**
- **High-performance DMA capability can be used for cable modem traffic**
- **Broadcom-developed device drivers enable rapid software development cycle**
- **Supports DVS POD requirements**
- **PCI interface provides bi-endian support and up to 3 bus masters for maximum system design flexibility.**
- **PCI interface allows for direct connection of cost-effective SuperI/O devices**

BCM7021 Advanced Video, Graphics, and Audio Subsystem



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