



## BCM7100 SINGLE-CHIP CABLE SET-TOP BOX SYSTEM

### BCM7100 FEATURES

- **Audio/video subsystem**
  - MPEG2/DC2/DVB transport
  - MPEG2/DC2 video decoder
  - MUSICAM/Dolby AC-3 audio decoder
- **Advanced 2D/3D graphics subsystem**
  - Studio-quality text and graphics
  - NTSC/PAL analog video decoder/encoder
  - System bus bridge with DMA
- **QAMLink<sup>®</sup> cable set-top box transceiver**
  - In-band and out-of-band demodulators
  - Burst upstream transmitter
- **MIPS-based microprocessor subsystem**
- **On-board DAVIC 1.2/1.5 MAC**
- **Key system peripherals**
- **POD support including DVS 213 DES descrambler**

### SUMMARY OF BENEFITS

- A fully featured analog and digital video cable set-top box feature set in a single chip reduces overall system cost dramatically.
- Subsystems are based on Broadcom's field-proven production-available technology.
- Can be used in cable systems worldwide with DVB, DAVIC, and ITU standards compatibility.
- Broadcom developed device drivers enable rapid software development cycle with support of industry-standard operating systems.
- Advanced graphics system allows applications such as internet browsers and electronic program guides to deliver studio-quality text and graphics on television monitors.
- Includes dual analog and digital (MPEG-2) video system.
- Supports DVS POD requirements.

### BCM7100 Single-Chip Set-Top Box System on a Chip

