The Technicolor ISB7105 High-Definition (HD) wireless IPTV set-top box enriches the entertainment experience. Customers are now free to place their TVs and video devices almost anywhere in the home, in a way that complements their lifestyles and living environments.

The ISB7105 set-top box is a versatile platform, allowing operators to deliver a wide range of content, including MPEG-2, MPEG-4 Part 10/AVC/H.264, and VC-1 video in standard-definition (SD) and high-definition (HD) formats.

The ISB7105 features a fast 400-MHz dual-core 32-bit host processor (up to 1100 DMIPS), with the power needed to support a variety of operating systems, advanced middleware platforms, and compelling user applications.

It also offers a full graphics engine with a comprehensive set of features needed for IPTV applications, including alpha blending and powerful hardware graphics acceleration.

The ISB7105 is capable of renewable security, with a choice of downloadable conditional access systems (CAS) and digital rights management (DRM).

### Features at a Glance

- Wide range of available video codecs includes MPEG-2, MPEG-4 Part 10/AVC/H.264, and VC-1 in HD and SD formats
- Powerful processor up to 1100 DMIPS for fast user response and flexibility for multiple applications
- Renewable security support for multiple security options with a choice of CAS and DRM providers
- Media center support option provides appropriate middleware and application support, and distributes content stored on the hard drive to other IP set-tops in the home
- IP compatible using a Fast Ethernet interface for IP video and data content
- Support for leading operating systems including Windows CE and Linux
- Middleware support for multiple options for IP middleware solutions
- Configurable memory provides support for lightweight or advanced applications
- Flexible HDTV Support
  - Supports ATSC formats (including 1080i, 720p, 480i, and 480p)
  - Supports stretch and zoom of video allowing maximum picture size on HDTV monitors
  - Down converts video from HD to SD format for recording content on analog VCRs
  - Includes some of the latest digital interfaces with applicable copy protection standards including HDMI™ with HDCP
ISB7105
High-Definition Wireless IPTV Set-Top Box

Technical Specifications

Front panel features
- Connections: USB host
- Buttons: Power, Menu, OK, left, right, up, down
- Indicators: Power, Link, HD, Record

Back panel features
- Connections: 10/100 Mbps Ethernet RJ-45 Connector
- Audio/Video connectivity: Component YPbPr, Composite video RCA, Stereo left/right audio RCA type, Optical S/PDIF, HDMI
- Power Input: DC jack

Audio / Video
- Display/Playback Streams: One SD or one HD plus multiple PIPs (subject to middleware and application software support)
- Available Video Codecs (subject to middleware and application software support): MPEG-2 MP@ML, MP@HL, MPEG-4 Part 10/H.264 MP@L4.1, HP@L4.1, SMPTE VC-1 AP@L3, MP@HL
- Available Audio Codecs (subject to middleware and application software support): MPEG-1 Layer 2 (Musicam), Dolby Digital, Dolby Digital Plus, MPEG-4 AAC, AAC-HE, MP3, WMA, WM9 Pro
- Available Security: AES, DES, CSA, RSA Support with Private/Public Key, Rovi Copy Protection, HDCP Copy Protection

Wireless
- Wireless interface: IEEE 802.11n 5 GHz
- Security: IEEE 802.1x authentication, WPA and WPA2 protected access, 64- and 128-bit WEP encryption, AES and TKIP encryption
- Wi-Fi multimedia: WMM and WMM-PS
- Multiple SSD profiles
- Integrated MAC address filtering
- Modulations: OFDM/BPSK, QPSK, 16-QAM, 64-QAM
- Supports 40MHz channel mode in 5GHz frequency range
- QoS: IEEE 802.1p - Priority Bits, IEEE 802.1q - VLAN Tagging, IEEE 802.11e Wireless quality of service (QoS)

System resources
- 400 MHz, 1100 DMIPS processor can support a variety of operating systems, advanced middleware platforms, and compelling user applications
- DRAM: 256 to 512 MB
- Flash: 64 to 128 MB
- Boot Flash: 4 MB

Remote control
- IR support: RCMM protocol

General specifications
- Dimensions (WxDxH): 1.85 x 9.85 x 6.62 in. (47 x 250 x 168 mm)
- Power input: DC jack
- Power supply: 12 VDC external PSU
- AC Voltage: 100 - 240 VAC, 50 - 60 Hz (switched mode power supply)