



ISB2000 Series

High-Definition IP Set-Tops

IP

Video

Part of a family of IP television (IPTV) set-tops, Technicolor ISB2000 Series IPTV set-tops represent a powerful, small, and flexible solution that enables service providers to deliver digital video and interactive services over IP networks.

ISB2000 Series set-tops allow service providers to deliver a wide range of content including MPEG-2, MPEG-4 Part 10/H.264, and VC-1 video in standard-definition (SD) and high-definition (HD) formats.

The optional integrated Digital Video Recorder (DVR) functionality available with the ISB2000 Series set-tops enriches the customer entertainment experience. With the ability to pause live TV; view and record multiple shows simultaneously; and rewind, fast-forward, and pause-recorded content, subscribers can customize and enjoy their favorite programming at their convenience.

ISB2000 Series set-tops feature a fast, 400 MHz, dual-core, 32-bit host processor (aggregate 1000 DMIPS) with the power needed to support a variety of operating systems, advanced middleware platforms, and compelling user applications. These set-tops offer a full graphics engine with a robust set of features needed for IPTV applications, including alpha-blending and powerful hardware graphics acceleration. ISB2000 Series set-tops are capable of renewable security with a choice of downloadable conditional access system (CAS) and digital rights management (DRM) technology for flexibility.

Features at a Glance

- Small form-factor design for ease of placement in the home
- One front-panel button for power, and three LEDs to indicate IP connectivity, HD and recording functions (if required)

- Powerful 1000 DMIPS processor with the Broadcom 7406 system-on-chip (SoC) helps to support fast user response and flexibility for multiple software applications
- DVR option (ISB2200 Series) to simultaneously record multiple video streams
- Wide range of available video codecs includes MPEG-2, MPEG-4 Part 10/H.264, and VC-1 in SD and HD formats
- Configurable memory provides support for many lightweight or advanced applications
- 10/100BASE-T Ethernet interface for IP video and data content
- eSATA hard disk drive interface (requires middleware support)
- Flexible high-definition television (HDTV) support
- Supports a variety of digital video outputs, including 1080p, 1080i, 720p, 576i, 576p, 480p, and 480i
- Supports video stretch and zoom to allow maximum picture size on HDTV monitors
- Down-converts video from HD to SD format to allow HD content to be displayed on SD televisions and recorded on analog VCRs
- Includes the latest digital interfaces with applicable copy-protection standards, including HDMI™ with HDCP
- Supports leading operating systems, including Microsoft Windows CE and Linux
- Supports multiple options for IP middleware solutions, including Microsoft Mediaroom and Nokia Siemens Networks Myrio
- Supports multiple CAS and DRM security options

Technical Specifications

Front Panel Features

Feature	Description
Controls	Power/Standby
Indicators	Network signal (SIG, green), HDTV (HD, blue), Record (REC, red), Power/Standby (green/red)
Connections In	USB (ISB2200 Series only)
Color	Black chassis, black lens, white text

Back Panel Features

Feature	Description
Standard	
Connections In	10/100BASE-T Ethernet, Infrared (IR) extender, USB (ISB2000 Series only), 15 VDC (ISB2000 Series)/12 VDC (ISB2200 Series), eSATA
Connections Out	SCART (optional on ISB2000 and ISB2200 Series), analog left and right audio, composite video, S-video, optical digital audio (S/PDIF), HDMI digital audio-video (AV)
Power Input	<ul style="list-style-type: none"> 100-240 VAC, 50/60 Hz; External 15 VDC/1 A 15 W (ISB2000 Series) 100-240 VAC, 50/60 Hz; External 12 VDC/1.67 A 20 W (ISB2200 Series)

Product Specifications

Specification	Value
Audio/Video Outputs	
Inputs and Outputs	SCART (optional), analog left and right RCA, composite video, S-video, optical digital audio (S/PDIF), HDMI
Available Video Decoders	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 Decoders	MPEG 1 Layer II (Musicam), Dolby Digital™ (AC-3), Dolby Digital Plus, MPEG 4 AAC and AAC-HE, MP3, WMA, WM9 Pro
Available Security	AES, DES, CSA, RSA support with private/public key, Macrovision® copy protection, HDCP copy protection
Display Streams	One SD or one HD plus multiple PIPs
Memory/Storage	
Unified DRAM	256 MB to 512 MB
Application Flash	64 MB minimum (0 MB minimum for DVR)

Professional Services

To reinforce our extensive portfolio of digital home solutions, Technicolor has a dedicated Professional Services team to make sure that every deployment is a success, from initial provisioning and integration to operations, upgrades, ongoing support and beyond. Our wide array of services spans the entire customer project lifecycle, encompassing:

- Expert consulting
- Software customizations and customer change orders
- Qualified technical support and maintenance
- Seamless system integration
- Efficient repair, refurbishment and recycling
- Warranty extensions on all our products

Specification	Value
Boot Flash	4 MB minimum
Internal Hard Drive (DVR models only)	Up to 320 GB
Processor	
Application/CPU	400 MHz, dual-core 32-bit processor (aggregate 1000 DMIPS)
Power Supply Options	
Power Supply	<ul style="list-style-type: none"> 100-240 VAC, 50/60 Hz; External; 15 VDC/1 A 15 W (ISB2000 Series) 100-240 VAC, 50/60 Hz; External; 12 VDC/1.67 A 20 W (ISB2200 Series)
Dimensions	
Product (WxDxH)	<ul style="list-style-type: none"> ISB2000 Series: 230 mm x 152 mm x 43 mm (9.06 in. x 5.98 in. x 1.7 in.) ISB2200 Series: 230 mm x 152 mm x 51 mm (9.06 in. x 5.98 in. x 2.00 in.)
Approximate Product Weight (includes power supply)	<ul style="list-style-type: none"> 614 g (1 lb 6 oz) with a 15 W European wall-mount power supply (ISB2000 Series) 672 g (1 lb 8 oz) with a 20 W wall-mount power supply (ISB2200 Series DVR)
Environment Specifications	
Placement	Locate with at least 5.08 cm (2 in.) of open space above and on each side
Operating Temperature	0° to 40°C (32° to 104°F) during operation
Compliance	UL/FCC, CE/CB, RoHS, WEEE
Remote Control	
Remote Control Support	Infrared

