

ISB7100 Series

HIGH-DEFINITION IP SET-TOPS



The Cisco® ISB7100 series IP set-tops represent 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 ISB7100 series IP set-tops feature a fast 400 MHz dual-core 32-bit host processor (up to 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. The ISB7100 series set-tops are capable of renewable security with a choice of downloadable conditional access systems (CAS) and digital rights management (DRM) for flexibility.

Figure 1. ISB7100 High-Definition IPTV Set-Top (image may vary from actual product and specification)



Features

- *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* supports up to 1000 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
- *Home Networking Support* for integrated Home Phoneline Networking Alliance (HPNA 3.1) standard to utilize existing in-home coax wiring
- *IP Compatible* using 100BASE-T Ethernet interface for IP video and data content
- *External Power Supply*
- *OS 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
- *Two sets of composite A/V outputs* to support connection to home theater systems, recorders, wireless headphones, transcoder devices, etc.

Environmental Sustainability

Cisco addresses the environmental impact of networking products throughout their lifecycle, from product development, manufacturing, and use to service and end-of-life. Integrating environmental policies into Cisco engineering and manufacturing practices results in socially accountable business practices that help reduce the environmental impact associated with networking products. For more information please visit the following website:
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http://www.cisco.com/web/about/ac227/ac228/ac231/about_cisco_takeback_recycling.html.

Features (cont.)

- *Flexible HDTV Support*
 - *Supports ATSC formats* (including 1080p, 1080i, 720p, 480p, and 480i)
 - *Supports stretch and zoom of video* allowing maximum picture size on HDTV monitors
 - *Downconverts video* from HD to SD format for recording content on analog VCRs and for compatibility with SD television sets and devices
 - *Includes some of the latest digital interfaces* with applicable copy protection standards including HDMI™ with HDCP

Table 1. Front Panel Features

Front Panel	
Connections	USB Host
Controls	7 buttons: Power, Menu, OK, <, ^, v, >
Indicators	Power, Link, HD, Record
Color	Black

Figure 2. ISB7100 Back Panel (image may vary from actual product and specification)



Table 2. Back Panel Features

Feature	Description
Connections	Network: 10/100 Mbps Ethernet RJ-45 Connector and F-Connector ("To Wall") with HPNA Audio/Video connectivity: <ul style="list-style-type: none"> • Component YPbPr • Composite Video RCA (two connectors) • Stereo L/R Audio RCA type (two sets) • Optical S/PDIF • HDMI
Power Input	12 VDC

Product Specifications

Table 3. Product Specifications

Specification	Value
Tuning and Decoding	
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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • MPEG-1 Layer 2 (Musicam) • Dolby™ Digital (AC-3), Dolby Digital Plus (E-AC-3) • MPEG-4 AAC, AAC-HE • MP3 • WMA, WM9 Pro
Available Security	<ul style="list-style-type: none"> • AES, DES, CSA • RSA Support with Private/Public Key • Rovi™ Copy Protection • HDCP Copy Protection
Memory/Storage	
DRAM	256 to 512 MB
Flash	64 to 256 MB
Boot Flash	4 MB
Processors	
Powerful 32-bit Host Processor	400 MHz, 1000 DMIPS processor can support a variety of operating systems, advanced middleware platforms, and compelling user applications
Remote Control	
IR Support	RCMM protocol
Power Supply	
Power Supply	External with power cord and plug: AC to 12 VDC
Regulatory	
Regulatory	FCC Part 15, UL Approved
Dimensions	
Product (HxWxD) (approximate)	1.75 in. x 9.75 in. x 7.8 in. (4.4 cm. x 24.8 cm x 19.8 cm)

Service and Support

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