



- IPTV and Video-on-Demand Applications
- MPEG-4 AVC/H.264 MP@L4.1, H.264 HP@L4.1, VC-1
- Support High-definition Resolution: 720p, 1080i
- Support H.264 & MPEG-2 of Up to 20 Mbps

Benefits

Advanced Video Coding

ZyXEL STB-1001H offers IP video services, such as Video-on-Demand and IPTV, based on MPEG-4 AVC/H.264 compression technology to reach a wider audience or achieve a higher density of service, and thus increased bandwidth efficiency. This enables Telcos to expand their subscriber base and offer two or more video streams per household, where only one was previously possible - creating opportunities for substantially increased revenues and faster return on their IPTV investments.

High-Definition Video Quality

The STB-1001H supports high-definition displays at 720p and 1080i resolution with MPEG-4 part 10/H.264 format. High-definition video offers exciting and dramatic viewing enjoyments with extraordinary realism and detail, especially on large displays. It comes complete with digital audio outputs for even more exciting home theater experience.

Support for Content Security Solutions

The STB-1001H is compatible with a wide range of leading content protection and right management solutions with or without Smart Cards. The Conditional Access feature of the STB-1001H can also be applied to terrestrial and satellite broadcasts, with which users can freely select any combination of appropriate security methods for themselves.

Support for Middleware Solutions

The STB-1001H is supported by leading IPTV Middleware providers for integration as part of a broadband TV solution. It also supports applications developed in HTML and JavaScript for content extensions.

Easy Installation and Extendable Features

The STB-1001H is easy to install even for subscribers, and its field-upgradeable software platform is also handy for future technology enhancements without costing IPTV service providers significantly.

IP Set-top Box

STB-1001H







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STB-1001H

Specifications

System Specifications

Electronics

• SOC Microprocessor (400 MHz)

Memory

- Support 128 MB flash (up to 256 MB)
- Support 192 MB SDRAM

Operating System

• Linux

Video Codec

- MPEG-1
- MPEG-2 MP@HL
- H.264 MP@L4.1/HP@L4.1

Audio Codec

- MPEG-1 audio layer 1&2
- MPEG-2 audio layer 1&2
- MP3 (MPEG-1 audio layer 3)
- MPEG-4 AAC
- Dolby Digital AC-3

Video Protocol

- Multicast IPTV (IGMP protocol)
- Video on demand (RTP/RTSP control)

- 24 bits/pixel RGB for computer graphics and video
- · 4:3 and 16:9 video format
- · Picture-In-Pictures & Picture-In-Graphics
- NTSC/PAL/SECAM
- Alpha blending
- · On screen display
- · Color keying

Security/Content Protection

- Macrovision v 7.0
- HDCP 1.1
- Support of Conditional Access System Selection

Network Protocol

- TCP, UDP, HTTP 1.1
- DHCP (RFC 2131)
- IGMP V.3
- NTP (RFC 1305)
- SNMP (RFC 1157)
- TR-069

Supported Bit-rates

- MPEG-2: 20 Mbps
- · H.264: 20 Mbps

Data

- Teletext [DVB EN 300 472]
- Subtitles [DVB EN 300 743]
- SPTS/IP

Browser

- HTML 4.01
- XHTML 1.0
- JavaScript 1.5
- DOM level 2
- CSS level 2
- XML
- Dynamic HTML
- SSL 3.0 128-bit encryption for secured transactions
- Flash 5.0 or above (Option)
- Support Video/Audio plug-in

Hardware Specifications

Interface

- · Power on/off switch button
- Built-in 10/100M Ethernet port x 1
- USB 2.0 host port x 1
- HDMI connector x 1
- IR receiver support IR remote control
- Infrared keyboard (option)
- · SPDIF x 1 (coaxial)

Video & Audio Output

- · Video Composite
- Audio L/R
- HDMI output
- SPDIF digital audio output

Remote Control

· Support IR remote control

Physical Specifications

- Dimensions: 190 (W) x 130.6 (D) x 34.8 (H) mm
- Weight: 0.35 kg

Environmental Specifications

- Operating temperature: 0°C ~ 40°C
- Storage temperature: -20°C ~ 60°C
- Operating humidity: 20% ~ 90% RH
- Storage humidity: 20% ~ 90% RH

Certification

Safety

- · UL60950-1
- · CAN/CSA-C22.2 No.60950-1-03
- EN60950-1
- IEC60950-1

EMC

- FCC Part 15 Class B
- EN55022 Class B
- EN55024

Application Diagram



For more product information, visit us on the web at www.ZyXEL.com





