

ZyXEL



www.zyxel.com/green

- IPTV and Video-on-Demand applications
- Support High-Definition resolution
- Provide content protection mechanisms
- Support remote management for easy installation
- Support DLNA for multimedia sharing
- Support local Personal Video Recording (PVR)

STB-2105 IP Set-top Box with PVR

Advanced Multimedia Center at Home

Benefits

Advanced video coding

ZyXEL STB-2105 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 network utilization. This enables Telco/Service Providers 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

ZyXEL STB-2105 supports High-Definition displays at 720p and 1080p with MPEG-4 part 10/H.264 format. High-Definition video offers exciting and dramatic viewing enjoyment with greater realism and more detail, especially on large displays. It comes complete with digital audio outputs for an even more exciting home theater experience.

Support for content security solutions

STB-2105 is compatible with a wide range of leading content protection and rights management solutions without Smart Cards. Its Conditional Access capabilities will provide good protection in regards to content provider concerns.

Support for middleware solutions

ZyXEL STB-2105 is supported by leading IPTV Middleware providers for integration as part of a broadband TV solution. It also supports applications developed in HTML, Javascript, and even the state-of-the-art SVG (Scalable Vector Graphics) for content extensions.

Easy installation and extendable features

ZyXEL STB-2105 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.

DLNA for easy multimedia sharing

With an embedded hard disk, users can record their favorite video clips and pause live TV. In addition, family members can easily share multimedia content without going through a complicated setup process.



Power-Saving Mode



HDTV



PVR



HD Audio Output



USB Interface



TR-069





Specifications

System Specifications

Electronics

- SOC microprocessor (450 MHz)

Memory

- Support 128 MB NAND flash (up to 256 MB)
- Support 256 MB DDR2 DRAM

Operating System

- Linux

Video Codec*

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

Graphic

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

Security/Content Protection

- Macrovision v7.0*
- HDCP 1.1*
- Support of conditional access system selection

Network Protocol

- TCP, UDP, HTTP 1.1
- DHCP (RFC 2131)
- IGMP v3
- 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
- SSL 3.0 128-bit encryption for secured transactions
- 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 ports x 2
- IR receiver support IR remote control
- Infrared keyboard (option)
- Smartcard slot

Video & Audio Output

- Composite (RCA)
- Component (YPbPr)
- SCART

- HDMI 1.3a

- Optical S/PDIF

Remote Control

- Support IR remote control

Physical Specifications

- Item weight: 997 g (2.2 lb)

- Item dimensions:

245 (W) x 151 (D) x 50 (H) mm

(9.64 (W) x 5.94 (D) x 1.97 (H) inches)

- Packing weight: 1,983 g (4.38 lb)

- Packing dimensions:

362 (W) x 201 (D) x 111 (H) mm

(14.25 (W) x 7.91 (D) x 4.37 (H) inches)

Environmental Specifications

Operating Environment

- Temperature: 0°C ~ 40°C
- Humidity: 20% ~ 90% RH

Storage Environment

- Temperature: -30°C ~ 60°C
- Humidity: 20% ~ 90% RH

Certification

Safety

- EN 60950-1, UL 60950-1, CSA C22.2 No. 60950-1

EMC

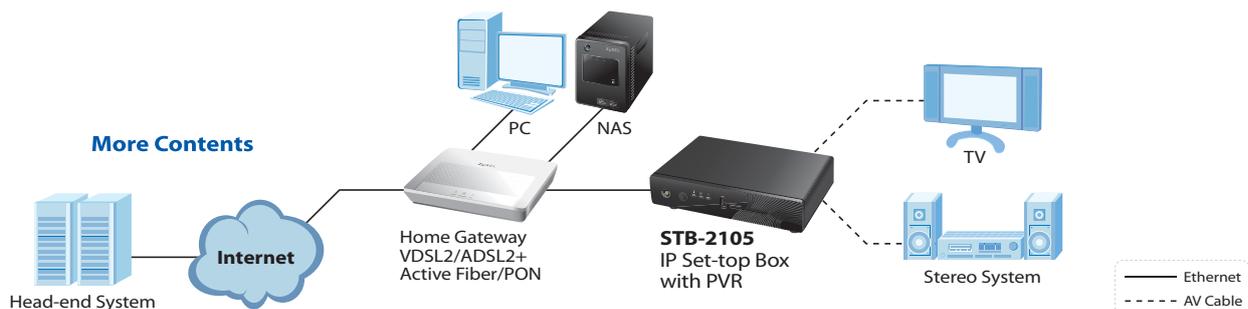
- FCC Part 15 Class B
- EN 55022 Class B

* Royalties are required

Rear Panel



Application Diagram



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