

Overview

Vilink's STB-IP400 is a state-of-the-art set top box offering MPEG-1/2/4 video and audio decoding capability over IP. The STB-IP400 can be used for Digital Television, Video on Demand, web browsing and as a Networked Personal Video Recorders (with optional hard drive option).

The STB-IP400 multicast playback client offers jitter protection for smooth high quality video viewing. The setop box has an embedded operating system running Linux and has full network management capability using SNMP v2.

The built in web browser supports SSL, HTML 4.0, Javascript, Macromedia Flash 6 and displays in three languages (English, Chinese, Western). Video on Demand is compliant with RTSP, ISMA MPEG-1/2/4 broadcasting and streaming, and is interoperable with major VOD servers (Darwin and nCube).

A Voice over IP (VoIP) function is available as well. The STB-IP400 supports the SIP and MGCP protocols as well as G.711 and G.723 codecs. The STB is upgradeable through TFTP over the network.

The STB-IP400 supports MPEG-2 (CBR and VBR) up to 15 Mbps and MPEG 4 SP/ASP video playback. For audio playback, MPEG-1 Layer 1/2, MP3, and MPEG-4 High Quality Profile Level 2 (AAC) formats are supported.

The STB-IP400 is the first of it's kind to offer such a broad range of support for video over IP broadcast and streaming decoding capabilities, with options to create a PVR or even an optional module to allow for DVB-S and antenna inputs makes this a unique and versatile set top box.



Features

- Fully compliant with MPEG-2/4 Video Standards
- Fully compliant with MPEG-1/2/3/4 Audio Standards
- SPDIF Digital Audio output for Dolby or DAC
- Software upgradeable through TFTP over network
- Use as Digital Video over IP receiver, Video on Demand, Web Browsing, Voice over IP, Personal Video Recorder
- Multicast viewing with jittering protection
- SNMP v2, MIB II, IGMP version 2
- Real time embedded Linux processor
- Web browser supports SSL 2.0/3.0, HTTP 1.1, Macromedia Flash 6
- EPG function, supports Picture in Graphics (PIG)
- Fast Ethernet, 10/100Mbps, RJ-45
- 7 Key front panel buttons with IR Remote
- 2 Smart Card readers (ISO7816-1/2/3)
- Common Interface (optional)
- DVB-S Tuner and Antenna Inputs (optional)
- IR Keyboard (optional)
- Hard Drive for PVR (optional)

Ordering Information

Model	Description
STB-IP400	IP Video MPEG-1/2/4 Decoder, VOD, PVR, Web, Set Top Box

Specifications

System	
Operating System	Real-time Embedded Linux
CPU	Nexperia 200 MHz
Memory	64 MB SDRAM 16/32 MB Flash
Networking	Fast Ethernet, 1 x RJ-45
Front Panel	7-key keypad (up, down, left, right, enter, menu, power) 2 Smart Card readers, ISO7816-1/2/3 Common Interface (optional)
Real Panel	Audio: Left/Right Stereo, SPDIF Digital Audio Video: CVBS, S-Video, SCART (option), RF Modulator (option) USB: 2 Connectors Ethernet: 1 x RJ-45 10/100Base-T DVB-S Tuner (option) F Antenna (option)
Storage	Optional HDD
Physical:	
Dimensions	373mm x 2900mm x 65mm
Weight	2 Kg
Operating Temperature	0°C to +50°C
Storage Temperature	-55°C to +85°C
Humidity	5% to 90%
Power:	
Power Supply	90-250 VAC / 47-63 Hz
Power Consumption	20 W Max

Audio and Video Features	
Graphics	Video scaling for video in graphics Anti-flickering filter, square pixel conversion for optimized viewing of computer graphics on a television 128 Level Alpha Blending On Screen Display (OSD) Picture in Graphics (PIG)
Video	MPEG-2 (CBR and VBR), up to 50 Mbps, MP @ ML MPEG-4 SP and ASP CCIR656 NTSC/PAL 720 Line Resolution TV output with Macrovision protection (optional)
Audio	MPEG-1 Later 1 and 2 MP3 MPEG-4 High Quality Profile Level 2 (AAC)
Applications	
Digital Television	Multicast TV Client with jittering protection IGMP Version 2 MPEG-1/2/4 ISMA Compliant Broadcasting / Streaming Network Personal Video Recorder (PVR)
Video on Demand	RTSP Protocol MPEG-1/2/4 ISMA Compliant Broadcasting / Streaming Interoperable with major VOD servers (Darwin, nCube) Supports Pause, Fast Forward, Rewind
EPG	HTML and Javascript Based
Upgradeability	Application auto upgrade through TFTP server
Web Browsing	HTML 4.0, Javascript 1.3 Supports JPEG, GIF, animated GIF, transparent GIF, PNG Supports SSL 2.0/3.0, HTTP 1.1, Macromedia Flash 6 English/Chinese/Western Language Double Byte Language Support
Network Management	SNMP Agent, Version 2 MIB II