

IP-NET™ Digital Video H.264 DVB-IPTV Set Top Box

Model

VISION HD IPTV



The IP-NET VISION HD IPTV is an innovative, complete and full featured, manageable, and performance-optimized advanced IPTV terminal that can receive broadband digital media content via Internet connections at anywhere in the world. This Linux based and modular architecture media platform integrates all of the required IPTV and P2P technologies to securely access and share store multiple types of digital media content, including Standard Definition TV (SDTV), High-Definition TV (HDTV) programs, Internet content, digital video, music, photos. It also provides live TV, VOD.

Applications:

Live TV Receiver

The VISION HD IPTV terminal receives IP based digital TV channels in both high-definition (HD) and standard-definition (SD) formats. It supports MPEG-2 and the latest generations of video and audio compression technologies such as H.264/AVC, VC-1, AAC, and Dolby Digital 5.1.

Features:

- **VOD** -The subscribers can get the video on demand services instantly anytime. It features Time Shifting function, allows the user pause, reverse and fast forward, skip back and forward when watching the program.
- **Karaoke** -To support karaoke, VISION includes a built-in microphone and mixer, it then combines the music and vocal source into one feed and enhances the sound quality. Audio functions include microphone inputs, volume control, key controller, echo, delay, repeat, and vocal reducer.
- **Digital Right Management** - VISION provides software-based DRM that enables operators to reap the benefit of low cost and high security. The DRM offers a suite of next-generation technologies that protect content and enhance revenue streams.
- **Browser** - VISION supports ANT browsers and has the powerful capabilities that enable systems to support advanced applications, next generation electronic program guide (EPG) and various interactive services.
- **BrowserVoIP and Video phone** - By plugging in hardware or software VoIP modules, VISION supports VoIP and makes it easy to deliver phone service and video phone service. Through the USB camera, the captured picture will be encoded into MPEG4 QCIF format digital video.

ZSSpecifications

Audio/Video Interfaces

HD component video output (HDMI and YPbPr)
Composite video/stereo audio out (3xRCA)
S-video output (4-pin DIN)
Optical digital audio output (S/PDIF)
Microphone input

Other Interfaces

Ethernet (RJ-45 10/100 Base-T)
Two USB 2.0 ports (support USB WiFi, Keyboard, Game Pole etc.)

CPU & Memory

32-bit 300 MHz CPU with 450 MIPS
OS: Linux 2.6
128 MB DRAM/DDR
32 MB Flash

Video Decoding and Processing

High Profile Level 4.1 H.264/AVC streams (up to 30 Mbps) at 30 frames/sec.
High or Main Profile Level 3.2 H.264 60 frames/sec.:
Level 3.1 H.264 30 frames/sec.
VC-1 Advanced Profile@Level 3/Simple/Main
HD MPEG-2 4:2:0 streams at 30 frames/sec; SD
MPEG-2 4:2:0 streams at 30 frames/sec.
HDTV output resolutions: 720p/1080i
SDTV output resolutions: 480i/480p/576i/576p
SDTV output supported down-converted HD content SD
Analog NTSC/PAL video output
Still Picture Decode JPEG, BMP, PNG, TIFF, GIF

Audio Decoding and Processing

AAC LC, AAC LC+SBR Level 2, AAC+ Level2 Decode
Dolby Digital, Dolby Digital Plus Decode
MPEG 1 Audio Layer 1/2/3(MP3) Decode, WMA
Decode

Audio and Video Encoding (second stage)

Audio: MP3 encoding
Video: MPEG4, QCIF 176x144, 15 frame max.

Browser (ANT)

Supports HTML 4.0, JavaScript 1.5

Security and DRM

DRM: AES/1DES/3DES/C2/CSS, or Customized DRM
Copy protection: Microvision 7.1 on digital and analog
outputs

OSD

Color: 32-bit true color
Alpha blending: 256 level
Graphic: Supports 2D graphic acceleration
(Graphic Use Interface)
Multi-lingual display: English/Chinese

Remote Control

IR remote control with 7 intelligent key to control
TV

Front Panel

Indicator light: Power, Recording, Ethernet
Link/Activity
Function Keys: 7- keys included
Up[CH+] / Down[CH-] / Left[Vol+] / Right[Vol-]
OK, MENU[Exit], STAND BY/POWER

System Maintenance

Software Upgrade: remote upgrade via Internet
(for Auto-detection or Manual control)
M&C: management via Ethernet port and
embedded management engine
SNMP based Management
Remote troubleshooting

Physical/Operating Specifications

Dimensions: 290x225x54 mm
Weight: 1.0 kg.
Temperature: 0°C – 50°C
Humidity: 15% to 80%, non-condensing
Altitude: 0 – 8,000ft. MSL

IP Protocol

IP protocol: TCP/IP, UDP, TFTP, FTP, HTTP,
Supports IPv4& IPv6
IP address setup: DHCP, PPPoE and Static-IP
Multicast: IGMP v1/2/3, TS over UDP, TS over
RTP
Network Management: SNMP v1, v2 and V3
Transport and Streaming Media Protocol:
RTP/RTCP/RTSP/SDP
Power: 90 - 240VAC, 50 - 60 Hz, 15W external
power supply

Agency Compliance and Certifications

FCC/UL/CSA /CE/3C

Manufacturer's Warranty

One-year limited warranty