

# Multiscreen Hybrid IP PVR Media Server STB

Our turnkey ALL-IN-ONE Multimedia Home Gateway comprises:

- ◆ 4 DVB/S2 tuners with very fast Turbo zapping mode.
- ◆ A NAS type multiroom Whole Home DVR function with 500 GB HDD.  
(enabling over 10 simultaneous access, hence serving up to 5 IP client screens in parallel)
- ◆ A built-in WiFi Access Point with QoS offering a compelling home cloud based multiscreen TV experience.
- ◆ Seamless DVB to IP paradigm capable of enabling 4 different Satellite Broadcasted programs to run smoothly on as many IP clients. (Tablets, Smartphones, PC, OTT boxes...)
- ◆ Straight-forward HbbTV & HTML-5 support.



## Features

- ◆ Video Streaming supporting MPEG-2 and H.264 (SD and HD)
- ◆ Unicast (5 unique streams) and Multicast Server modes
- ◆ One Common interface for CA system (CI-Plus 1.3 option)
- ◆ Advanced multiroom DVR function leveraging on built-in HDD disk
- ◆ Video on Demand (VoD)
- ◆ Internet surfing over TV, HbbTV seamless support
- ◆ Digital and analogue outputs for Video and Audio + SPDIF
- ◆ LAN-interface (ETHERNET 10/100 BT) – 3 ports.
- ◆ Front side USB port
- ◆ Internal infrared receiver for remote control
- ◆ Fulfill the standby mode requirements from the European CoC
- ◆ Below 20 seconds boot + Ultra fast Zapping

Broadband Access

Wireless Networking

Set-Top-Box

Mobile Computer

Smart Grid

Automotive Electronics

## ◆ Software

- Advanced OS & Middleware tailored for Multiscreen (designed by HyperPanel Lab)
- Advanced Graphical User Interface based on Modern Icon navigation scheme
- Http Media Player & Server
- MP3 Player & Photo Album
- Electronic Program Guide (with built-in record mode)
- Picture in Picture hybrid functionalities
- On-screen teletext
- On-screen subtitle
- Parental control
- Multiroom PVR Pause-TV
- Time-shift with advanced modes
- SAT>IP certified
- Over the top services
- Home networking (Universal Access Point and Http Server)

## ◆ Security (content protection & condition access)

- Selection of embedded DRM & Conditional Access
- HDCP on HDMI output
- Secured boot loader

## ◆ IP Protocols & Standards

- IGMP2 [RFC 2236], IGMP3 [RFC 3376]
- RTSP [RFC 2326]
- RTP [RFC 3550]
- PPPoE [RFC 2516]
- SIP [RFC2543]
- NTP [RFC 1305]
- SSL 3.0
- TLS 1.0 [RFC 2246]
- HTTP 1.1, HTTPS, HTTP Authentication [RFC 2617]
- DHCP [RFC 2131]
- HTML 4.01, Dynamic HTML
- XHTML 1.0
- JavaScript 1.5
- DOM level 2
- CSS level 2
- TR-069/TR-111

## ◆ CPU – Memory – Storage

- ST Microelectronics CPU
- 512MB DDR2
- NOR Flash 2MB
- NAND Flash 128 MB (extensible)
- Optional SATA 2.5 HDD (500G, 1T, 2T)

## ◆ Video Decoding

- H264, MPEG2 decode, and optional VC-1, WMV9
- MPEG2 up to MP@ML and 60 Mb/s - VBR
- AVS SD Streams
- (optional) WM9 Main Profile & High Level
- Upscale and downscale on HDMI
- Decoding to 1080i, display to 1080P
- DVB Subtitle
- Picture JPEG, BMP, GIF, GIFF, PNG

## ◆ Audio Decoding

- MPEG1 Layer II single/dual channel
- MP3, MPEG4 LC AAC 5.1
- WMA9, WMA9-Pro
- Pass through Dolby Digital, Dolby Digital Plus
- Linear PCM
- Sampling up to 48KHz
- SPDIF audio delay adjustable up to 200ms

## ◆ Front-end - Network

- Modular 4 tuners DVB-S2
- Optional modular 4 tuners DVB-T
- Optional modular 4 tuners DVB-C
- Ethernet 10/100 Base-T - 3 ports
- WIFI 802.11n Access Point with QoS Management

## ◆ Rear panel

- 3 Socket RJ45 – 10/100 Base-T auto MDIX
- 1 HDMI 1.3
- 1 SPDIF optical
- 3 Cinch analog CVBS output + Audio L/R
- 1 USB 2.0 Host
- 1 DC power jack
- 1 RF-Input & 1 RF Pass-Through Output (option)

## ◆ Front panel

- 1 USB 2.0 Host
- LED 1 Red standby/Green active
- IR receiver
- 1 Common Interface

## ◆ Regulatory Approvals and Compliance

- FCC part 15 Class B, CE
- UL, CB or LVD
- ROHS

## ◆ Power / Operation Environment

- External power supply
- Input 100-240VAC±10%; Output 12VDC/3A
- Temperature: 0 to 40°C (32 to 96°F)
- Humidity: 20% to 90% (non-condensing)

## ◆ Mechanical design

- 227 (W) x 55 (H) x 205 (D)



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