

DiscusTM MultiMedia Gate

HY100 STB Show True Broadband



Pirelli has converged IPTV and digital terrestrial television into one powerful multimedia platform.

- IP Television
- External Hard Drive for Personal Video Recording
- iDTT - MHP
- High Definition TV
- H.264 Decoding
- CA/DRM

Pirelli HY100 is an integrated **high definition** set top box with advanced chip technology designed to receive and decode various streaming media formats.

HY100 STB will help you provide innovative services thanks to its versatile System On a Chip architecture.

The converged platform makes possible the transmission of interactive Digital Terrestrial Television and bandwidth-intensive video services over the last mile.

HY-100 STB can be connected to a USB 2.0 external hard drive. Its middleware enables assorted trick play, local video recording, recorded-services playback, and pause Live TV as well as time-shift recording.

An integrated set-top box with advanced-chip technology designed to receive and decode streaming media from various sources,

HY100 STB will help you provide innovative services and combat competition.

With a dedicated, high-power media processor, HY100 STB is capable of

decoding all **new video formats**, standard and high definition H.264, legacy coding such as MPEG-1 and MPEG-2.

We know how important content protection is to you and your customers, so we have made it one of our top priorities. With multiple Digital Right Management (DRM) and Conditional Access (CA), your content is always protected.

HY100 STB supports media content storage and is compatible with selected USB digital cameras, making it the ultimate home entertainment platform.

What's more, you can add video streams and up-sell services through a rich set of plug-in devices based on Pirelli's Wi-Fi and Power Line Adapters technology, supporting bandwidth intensive Applications, such as IPTV distribution and high-speed data traffic. Based on Pirelli's expertise in CPE remote management, the DVR100 offers an advanced Assurance and Performance Monitoring data model, which allows Operators to remotely troubleshoot Quality of Service issues via TR-069 compliant Management Systems such as the Pirelli Management Platform (PMP).

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TECHNICAL SPECIFICATIONS

System

Operating system: Linux 2.4.x (Windows CE.net option)

System On Chip: Main 300MHz CPU is a MIPS "4KeC" 32-bit processor and Dedicated audio/video HW accelerators are embedded in the SoC

Memory: 128/192/256MB system/video DDR2 RAM, 4/32/64MB flash

Network Interfaces and control

1x RJ45, Ethernet 10/100 BaseT, auto sensing, full duplex

1 x RJ11 V.90 module (DVB-T module option)

2x USB2.0 type A master interface

I/R remote control with 4-color keys and VCR like functions

Options

I/R keyboard with integrated track ball or pointing dish

USB hard drive

Wi-Fi 802.11n external adapter

Optional H. 263 Videoconference

Optional DVB-T module

Video Out

2x SCART connectors (RGB, CVBS, Analog L/R bypass) [PAL/SECAM/NTSC]

1x S-video mini-DIN connector

1x HDMI / HDCP 1.1 type A (interface for HDTV 1080i, 720p, 480p, 576p)

1x RCA CVBS analog composite

Audio Out

1x S/PDIF (Sony/Philips Digital Interface) digital sound optical connector

2x Stereo output on RCA connectors

Audio/Video Codec	MPEG1 (ISO/IEC 11172-1 ISO/IEC 11172-2) Synch/multiplexing CBR, VBR support. MPEG2 (ISO/IEC 13818-3) PS, SPTS MPEG2 MP@ML (SD at 25fps 40Mbps) H.264 BP@L3 (SD at 25fps 40Mbps) H.264 MP@L4.1 (HD 1080i30,720p60) MPEG2 MP@HL (HD 1080i30,720p60) MPEG4 ASP@L5 (HD 720p) WM9/VC1 MP@HL (HD 1080p30, 720p60) VC1 AP@L5 (HD 1080P30, 720P60) Audio decoder MPEG1 Layer 2 (models 32, 44, 48 Khz, mono and stereo) Audio decoder MPEG1 Layer 3, all models, including low-bandwidth profiles (from 8 kbps to 448 kbps;16, 22.05, 24, 32, 44.1, 48 kHz) Audio decoder Dolby Digital 2.0 and AC3 5.1 (Framed within S/P DIF output) and downmixing to stereo. Audio decoder MPEG-2 AAC-LC, MPEG-4 AAC-SBR stereo (sample rates of 32 kHz, 44.1 kHz, 48 kHz)
Videoconferencing Video Telephony Option	Through external USB camera Optional H.323 V2 stack (upon request). SIP stack support H.263 / G.7xx audio video codecs (upon request)
IPTV and Web browsing	Opera 8.5 HTML 4.01 / ECMA Javascript 1.5 Cookies support / Electronic certificates Mime type support HTTPS support (SSL3, SSL2 128 bits) DOM level 2 / CSS level 2 Macromedia Flash 7.0 plug in Trick play and RTSP support Open Video Client OMC/OMP Alcatel OVS Microsoft MSTV IPTVe 1.1/1.2 TandbergTV, Optibase Harmonic multicast support Bitband, Kasenna n-Cube (upon request) HTTP streaming TCP/UDP support RTP/ RTCP support Unicast and multicast support IGMP V3 support
Video Streaming Player	
Authentication and Content protection	Dual Smartcard reader ISO7816 compatible Conditional access Support through smartcard and/or server oriented certifications NDS Synamedia certified Nagra (Nagravision CAK) and Irdeto Access (Softcell) (upon request) Macrovision® ACP (analog copy protection scheme) DRM (Digital Rights Management)
Interactive Digital Terrestrial TV Option	1x IEC-169-2F antenna Jack input for DVB-T tuner and digital demodulator Digital tuner bandwidth: VHF I,II,III and UHF 7/8Mhz channels Frequency range: 49-861MHz (channel center) MHP 1.0.3 with interactive broadcasting profiles

Hard Drive

Through USB 2.0 External Hard drive

Management and Network configuration

DSL Forum TR-069

DHCP client

Static IP

PPPoE client

SOAP

Remote SW upgrade possible through the IP network

Applications

Time Shift TV

Pause TV

Local/Network PCR

TV Channel zapper application

VOD client

Live TV/Interactive TV with EPG

Web browser and T-mail

Video messaging / Chat

Digital radio

Physical Specs

Dimensions: 300mm X 200mm X 60mm (WxDxH)

Unit Weight: 2.5 Kg

Power Adapter: 220Vac/50Hz, 12 Vdc, 25 W (tvp)

Environmental conditions

+5 to +40°C (5% - 85% Humidity)
Indoor, temperature-controlled locations according to ETSI EN300 019-2-3 V2.1.2

CE Marking

European Community Directive for Low Voltage Electrical Equipment (73/23/EEC)

European Community Directive for Electromagnetic Compatibility EMC (89/336/EEC and 93/68/EEC)

European Community Directive on radio equipment and telecommunications terminal equipment (99/05/EEC) Audio, video and similar electronic apparatus

Safety requirements (EN 60065/ EN 60950)