Discus™
MultiMedia
Gate
HY100 STB Show
True Broadband

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

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 Pirellli's Wi-Fi
and Power Line Adapters
technology, supporting
bandwidth intensive
Applications, such as
IPTV distribution and
high-speed data traffic.
Based on Pirellii’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).
### Technical Specifications

**System**
- Operating system: Linux 2.4.x (Windows CE.net option)
- System On Chip: Main 300MHz CPU
- 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 (DVBT 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
- Optional DVB-T module option
- Optional IEC-169-2F antenna Jack input for DVB-T tuner
- External USB camera
- Dual Smartcard reader ISO7816 compatible

**Audio/Video Codec**
- MPEG1 (ISO/IEC 11172-1 ISO/IEC 11172-2)
- Synch/multiplexing CBR, VBR support.
- MPEG2 (ISO/IEC 13818-3) PS, SPTS
- H.264 BP@L3 (SD at 25fps 40Mbps)
- H.264 MP@L4.1 (HD at 1080p30, 720p60)
- MPEC4 ASP/PSL (HD 720p)
- WMV9/VC1 MP@HL (HD 1080p30, 720p60)
- Audio decoder MPEG-2 AAC- LC, MPEG-4 AAC-SBR stereo (sample rates of 32 kHz, 44.1 kHz, 48 kHz)
- Audio decoder MPEG-1 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)
- Through external USB camera

**Video Streaming Player**
- Opera 8.5
- HTML 4.01 / ECMA Javascript 1.5
- Cookies support / Electronic certificates
- MIME type support
- HTTP/1.1 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 IPTV 1.1/1.2
- TandbergTV, Optibase  Harmonic multicast support
- Bilbant, Kasenna n-Cube (upon request)
- HTTP streaming
- TCP/UDP support
- RTP / RTCP support
- Unicast and multicast support
- IGMP V3 support
- Authentication and Content protection
- Dual Smartcard reader ISO7816 compatible
- Conditional access support through smartcard and/or server oriented certifications
- NDS Synamedia certified
- Nagravision CAC 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 bandwidths: VHF I,II,III and UHF 7/8MHz channels
- Frequency range: 49-861MHz (channel center)
- MHP 1.0.3 with interactive broadcasting profiles

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### 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)
- Weight: 2.5 Kg
- Power Adapter: 220Vac/50Hz, 12 Vdc, 25 W (tpv)

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

### Safety requirements (EN 60065/ EN 60950)