

# Discus™ MultiMedia Gate

## DVR100 STB Show True Broadband



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

Pirelli DVR100 STB is an integrated **high definition** set top box with advanced chip technology designed to receive and decode various streaming media formats. DVR100 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.

DVR100 STB includes an internal hard drive for PVR applications. 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, DVR100 STB will help you provide innovative services and combat competition.

With a dedicated, high-power media processor, DVR100 STB is capable of decoding all **new video**

- **IP Television**
- **Hard Drive for Digital Video Recording**
- **iDTT - MHP**
- **High Definition TV**
- **H.264**
- **CA/DRM**

**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.

DVR100 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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## DVR100-STB Show True Broadband

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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 DDR2 RAM , 4/32/64MB flash

#### Network Interfaces and control

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

1x RJ11, phone FXO interface with V.90 modem emulation

3x (2 rear, 1 front) x USB2.0 type A master interface

I/R remote control with 4-color keys and VCR like functions, according to DGTVi specs (D-book)

#### Options

I/R keyboard with integrated track ball or pointing dish

120/160/250 GB 2.5" / 3.5" hard disk upon request

Videoconference

DVB-T module

Wi-Fi 802.11g external adapter

#### 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)

3x RCA analog component (Y, Pb, Pr) (upon request)

#### Audio Out

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

2x Stereo output on RCA connectors

<b>Audio/Video Codec</b>	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)
<b>Videoconferencing Video Telephony Option</b>	Through external USB camera (upon request) H.323 V2 stack SIP stack support H.263 / G.7xx audio video codecs (upon request)
<b>IPTV and Web browsing</b>	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
<b>Video Streaming Player</b>	Trick play and RTSP support Open Video Client OMC/OMP Alcatel OVS Microsoft TV 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
<b>Authentication and Content protection</b>	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)
<b>Interactive Digital Terrestrial TV (option)</b>	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

Internal Hard Drive

Fluid Dynamic Bearing

2.5" / 3.5"

PATA -3 EIDE 40-200 GByte

5400/7400 RPM

#### 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: 360mm x 268mm x 64 mm (WxDxH)

Unit Weight: 3.5 Kg (with HD)

Power:110- 220Vac, 50-60Hz, 60W (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