

# Discus<sup>TM</sup> MultiMedia Gate

## DVR-STB Show True Broadband



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

The converged platform makes possible the transmission of interactive and bandwidth-intensive video services over the last mile while next-edge broadcasting technology, interactive-Digital Terrestrial Television, delivers additional digital-quality channels and new services. Today, Pirelli has merged two powerful network solutions and digital terrestrial television into one multimedia, digital video recording platform

DVR-STB includes a hard drive and it's middleware allows 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, DVR-STB will help you provide innovative services and combat competition. DVR-STB is an extremely versatile platform

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

With a dedicated, high-power media processor, DVR-STB is capable of decoding all new encoding standards including standard definition and high definition H.264, and legacy coding standards 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.

DVR-STB is equipped with a hard drive for 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 HomePlug technology.

Features subject to change - not contractually valid unless specifically authorized by Pirelli

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**PIRELLI**  
BROADBAND  
SOLUTIONS

# Discus™

## MultiMediaGate

### DVR-STB Show True Broadband

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

#### 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 + 32/64MB video DDR2 RAM, 4/32/64MB flash (flash less network boot version available)

##### Network Interfaces and control

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

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

2x 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 hard disk upon request

Optional H. 263 Videoconference

DVB-T module

Wi-Fi 802.11g dongle

##### Video Out

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

1x S-video mini-DIN connector

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

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

##### Audio Out

1x S/PDIF (S/P DIF IEC958 Type II) digital sound coax RCA connector

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>	Thru external USB camera Optional H.323 V2 stack Optional SIP stack support G.711, G.723, G.729 (G.7xx), AMR codec (videoconferencing 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 PDF reader plug in (upon request)
<b>Video Streaming Player</b>	Trick play and RTSP support Open Video Client OMC/OMP Alcatel OVS Microsoft TV IPTVe 1.1 TandbergTV, Optibase 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

3.5 Inch

PATA 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: 370mm X 220mm X 60mm (WxDxH)

Unit Weight: 3.5 Kg (with HD)

Power Adapter: 220Vac, 50Hz, 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)