

Discus™ MultiMedia Gate

DVR000 STB Show
True Broadband



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

Pirelli DVR000 STB is an integrated **high definition** set top box with advanced chip technology designed to receive and decode various streaming media formats. DVR000 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.

DVR000 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, DVR000 STB will help you provide innovative services and combat competition.

With a dedicated, high-power media processor, DVR1 00 STB is capable of decoding all **new video formats**, standard and high definition H.264, legacy coding such as MPEG-1 and MPEG-2.

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

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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MAIN FEATURES

- IP Television
- Hard Drive for Digital Video Recording
- iDTT – 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 , 4/32/64MB flash

Network Interfaces and control

1x RJ45, Ethernet 10/100 BaseT, auto sensing, full duplex
 1x RJ11 1, 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 802.11 g external adapter

Video Out

2x SCART connectors (RG B, CVBS, Analog L/R bypass)
 [PAL/SECAM/NTSC]
 1x HDMI / HDCP 1.1 type A (interface for HDTV 1 080i, 720p, 480p, 576p)
 1x S-video mini-DIN connector
 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

Audio/Video Codec	MPEG1 (ISO/IEC 11172-1 ISO/IEC 11172-2) Synch/multiplexing CBR, VBR support.
	MPEG2 (ISO/IEC 1381 8-3) 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 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 (saple rates of 32 kHz, 44.1 kHz, 48 kHz)
Through external USB camera (upon request)	
Videoconferencing Video Telephony Option	H.323 V2 stack
	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
Video Streaming Player	Macromedia Flash 7.0 plug in
	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
Authentication and Content protection	IGMP V3 support
	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: 49-861 MHz (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 64mm (WxDxH)
 Unit Weight : 3.5 Kg (with HD)
 Power: 110-220Vac, 50-60Hz, 60W (typ)

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 telecommunications terminal equipment (99/05/EEC) Audio, video and similar electronic apparatus
 Safety requirements (EN 60065) / EN 60950