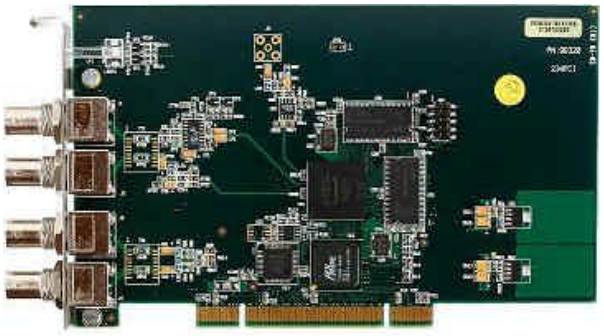
Digital Video Interfacing Products

AT40XPCI

DVB-ASI input
DVB-ASI output



Standard Features

- **PCI 2.2**, 32 bit, 33/66MHz 3.3V.
- Bus Master DMA, Scatter /Gather Interface Protocol.
- Windows XP, Vista, Win 7 (64bit) Drivers + SDK.
- Linux Drivers & sample application.
- Accompanied by DVSStaion3, Alitronika's Integrated TS Player, Recorder & Real Time Quick Analyser Software.
- Supports DVB Standards **A1010Rev1** and **EN50083.**
- Supports 188 /204 byte Packet Sizes.

Input

- Integrated Loop Through output.
- Carrier and Lock Detection.
- Sync, Error & Code Violation Detection.
- Automatic Cable Equalization of up to 350m.
- Support for Time Stamping, PID filtering.

Output

- **Two** DVB-ASI outputs.
- Programmable Output Bit Rate.
- Null Packet Insertion by hardware.
- Selectable Burst size mode & continuous mode TS output.
- Hardware TS generation.

Application

Targeted for Digital Video Professionals, Sophisticated End Users and OEMs the AT40XPCI is an ideal solution for A number of applications such as:

- Development Tools.
- DVB to IP or IP to DVB Gateway.
- Transport Stream Recording.
- Transport Stream Playing.
- Transport Stream Analysing
- Transport Stream Monitoring.
- Video on Demand Server.
- Transport Stream Test Generator.
- High Speed Serial Data Link.
- One ASI to 3 ASI signal multiplier.

Specifications

On Board Buffer: 16 Mbytes
Serial Connectors: 75 Ohms BNC
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Input Return Loss: >15 dB
Input Signal level: 800 mV +/- 10%
Output Signal level: 1.0Vp-p nominal
DVB-ASI I/Bit Rate: 0 to 214 Mbit/s
Bit Rate Stability: +/- 25ppm
DVB-ASI Input/Output Clock: 270 MHz
Size WxL: 175mm**x**107

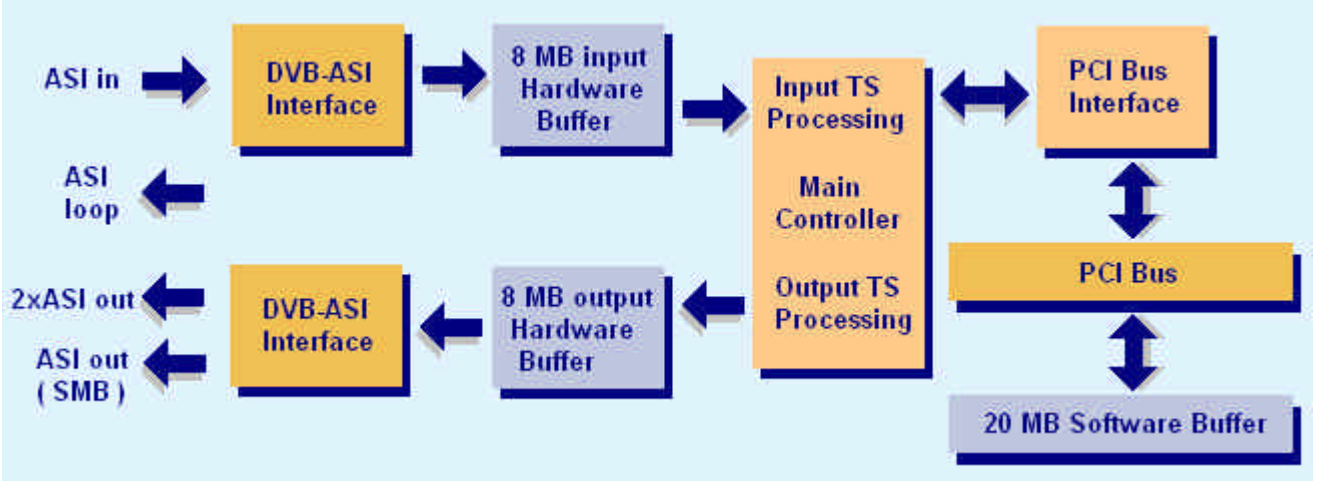
1 GENERAL DESCRIPTION

A member of Alitronika's state of art digital video interfacing products.

The AT40XPCI is a PCI based interface device suitable for Playing, Recording and Analyzing of DVB-ASI Transport Streams.

2 BLOCK DIAGRAM

FIG4 illustrates the block diagram of the AT40XPCI device. The device communicates with the PC via the PCI interface device. On the input side, the serial data is de-serialized 8b/10b and de-coded before it is presented to PC via the PCI controller device. On the output side, the MPEG-II transport streams enter the device via the USB interface device. The AT40XPCI then transmits the transport streams according to the settings provided by the application software. The data is 8b/10b encoded for DVB-ASI signals before it is serialized and transmitted via the BNC output connectors.



3 EXTERNAL INTERFACES

The external interfaces for the AT40XPCI are shown. There are 4 BNC connectors for the Serial, DVB-ASI, input, loop through and two outputs as well as a SMB connector for DVB-ASI internal connection to another board inside the PC.

The LED in the back of the unit function as follows:

OFF = Power is off/ device not activated
Flashing (Red) = Play /Record not activated – Error condition
ON (Green) = Normal operational condition
In Record mode this LED indicates that a Carrier has been detected and the device has locked to incoming TS.
In Play mode this LED indicates that the output section has valid TS (normal operating conditions).

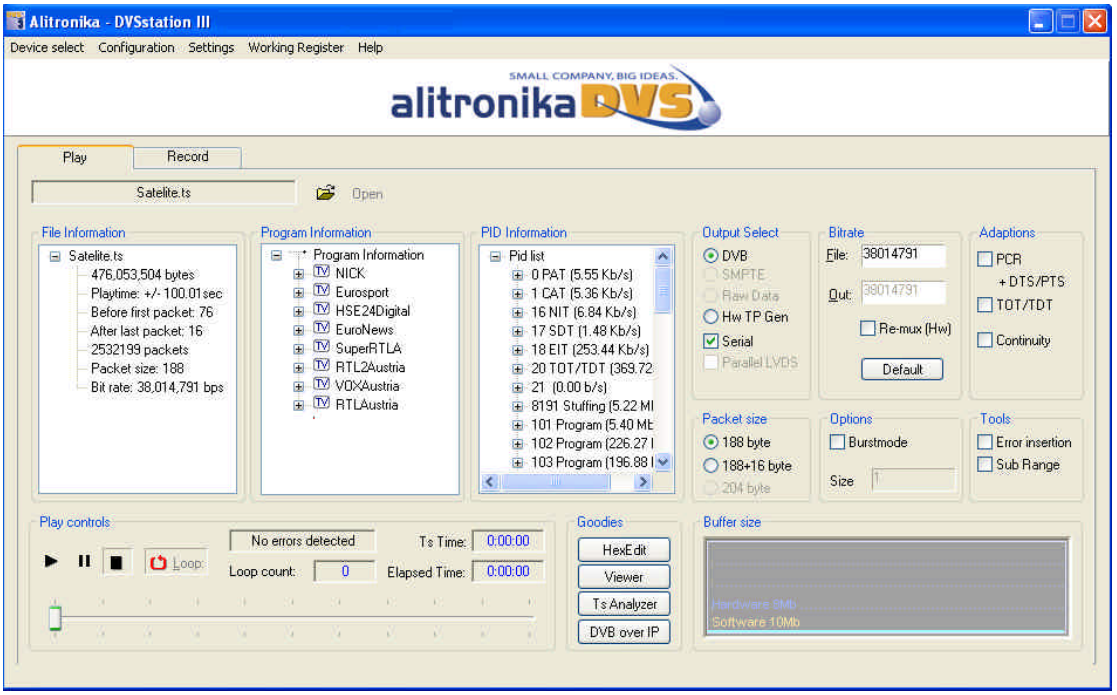
4 APPLICATION

Targeted for digital video professionals, sophisticated end users and OEMs the AT40XPCI is an ideal solution for a number of applications such as, development tools, universal interface for MPEG-II Transport Stream Playing and Recording, video on demand server, transport stream test generator, high speed serial data link, software based MPEGII decoders & encoders and many other applications.

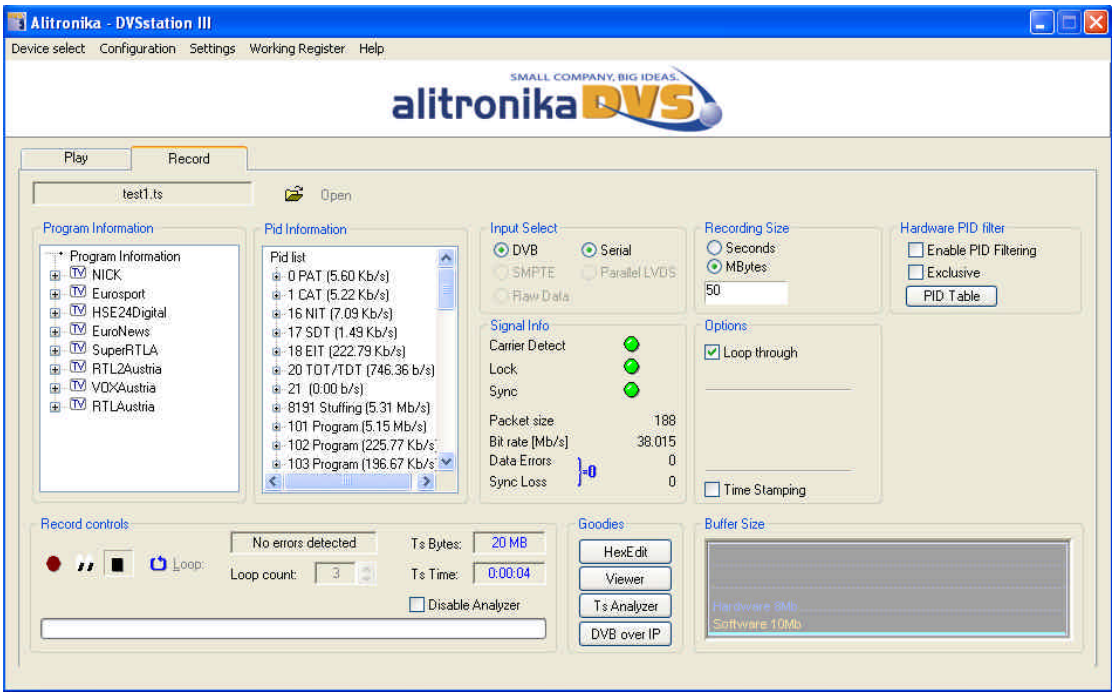
5 Software Application, DVSStation3

5.1 – DVSStation3: All of Alitronika devices are supported by DVSStation3, Alitronika's **FREE** Transport Stream Player, Recorder, Analyser & converter application software. Please refer to DVSStation3 specification and User Manual on our website for more information about DVSStation3. Even better please download it from our website & try it out. It works in DEMO mode without any Alitronika devices.

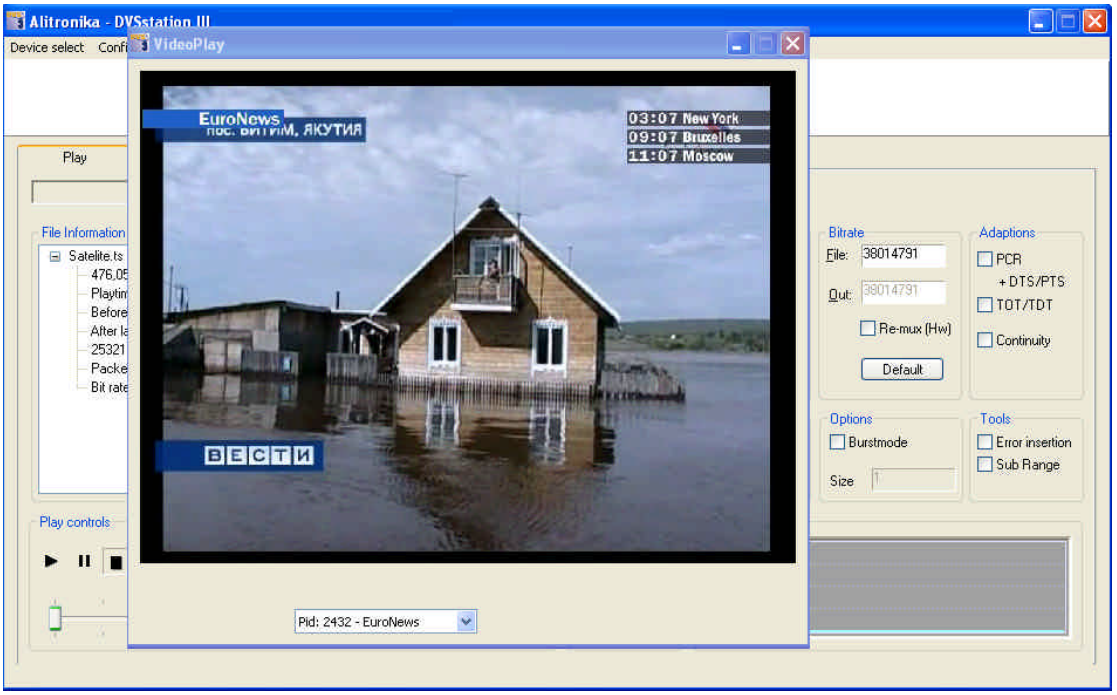
Play Screen



Record Screen



Video Viewer



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