

## Digital Video Interfacing Products

### AsiPod AT4USB

DVB-ASI input and output  
Small Pocket size  
No External Power Supply needed



## Standard Features

- **High Speed USB 2.0.**
- Windows XP, Vista, Win 7 ( 64bit ) Drivers + SDK.
- Linux Drivers & sample application.
- Accompanied by DVStation3, 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

- 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 AT4USB 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.



## Specifications

**On Board Buffer:** 8 Mbytes  
**Serial Connectors:** 75 Ohms BNC  
**Input Return Loss:** >15 dB  
**Input Signal level:** 800 mV +/- 10%  
**Output Signal level:** 1.0Vp-p nominal  
**DVB-ASI I/O Bit Rate:** 0 to 214 Mbit/s  
**Bit Rate Stability:** +/- 25ppm  
**DVB-ASI I/O Clock:** 270 MHz  
**Size WxLxH:** 80mmx50mmx20mm

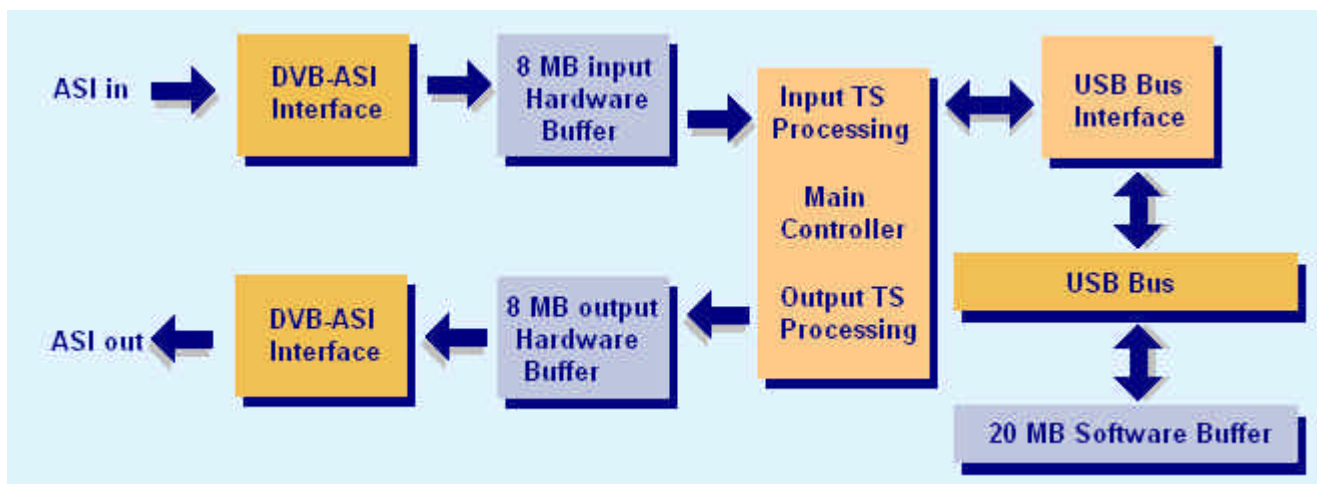
## 1 GENERAL DESCRIPTION

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

The AT4USB is a USB based interface device suitable for Recording, Playing and Analyzing of DVB-ASI Transport Streams.

## 2 BLOCK DIAGRAM

**FIG4** illustrates the block diagram of the AT4USB device. The device communicates with the PC via the USB 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 USB controller device. On the output side, the MPEG-II transport streams enter the device via the USB interface device. The AT4USB 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 AT4USB are shown. There are two Mini BNC connectors for the Serial input and output of DVB-ASI and a mini USB for connection to USB port of the PCs. The unit is supplied with USB cable and adaptors BNC to Mini BNC.



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 operating 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).

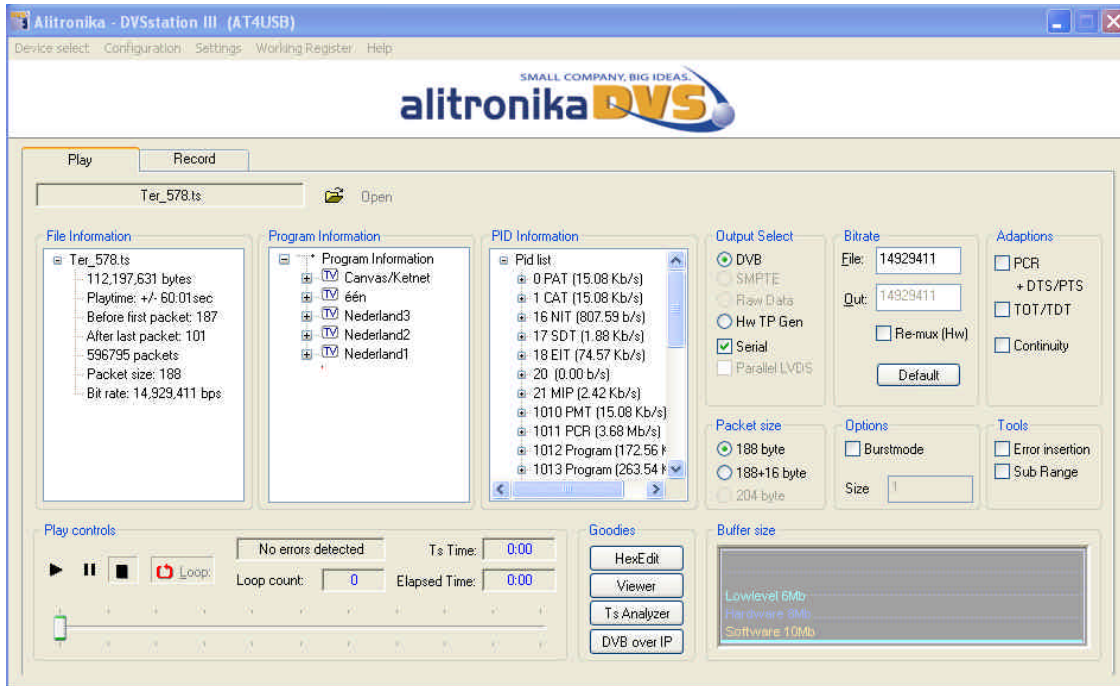
## 4 APPLICATION

Targeted for digital video professionals, sophisticated end users and OEMs the AT4USB 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.

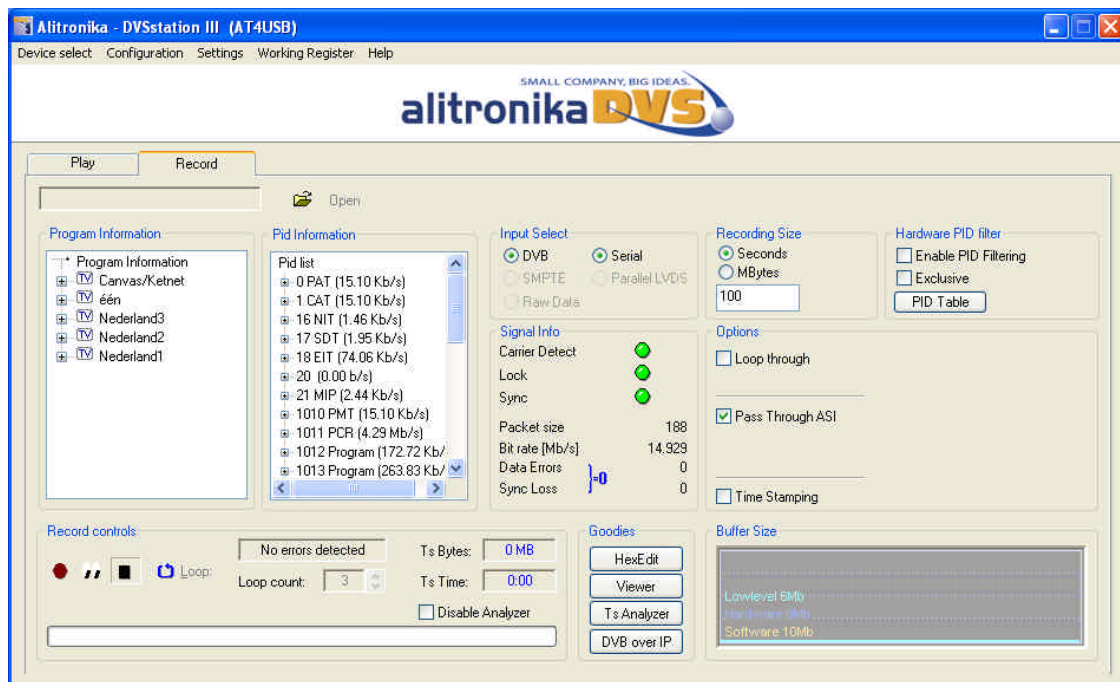
## 5 Software Application, DVStation3

**5.1 - DVStation3:** All of Alitronika devices are supported by DVStation3, Alitronika's **FREE** Transport Stream Player, Recorder, Analyser & converter application software. Please refer to DVStation3 specification and User Manual on our website for more information about DVStation3. Even better please download it from our website & try it out. It works in DEMO mode without any Alitronika devices.

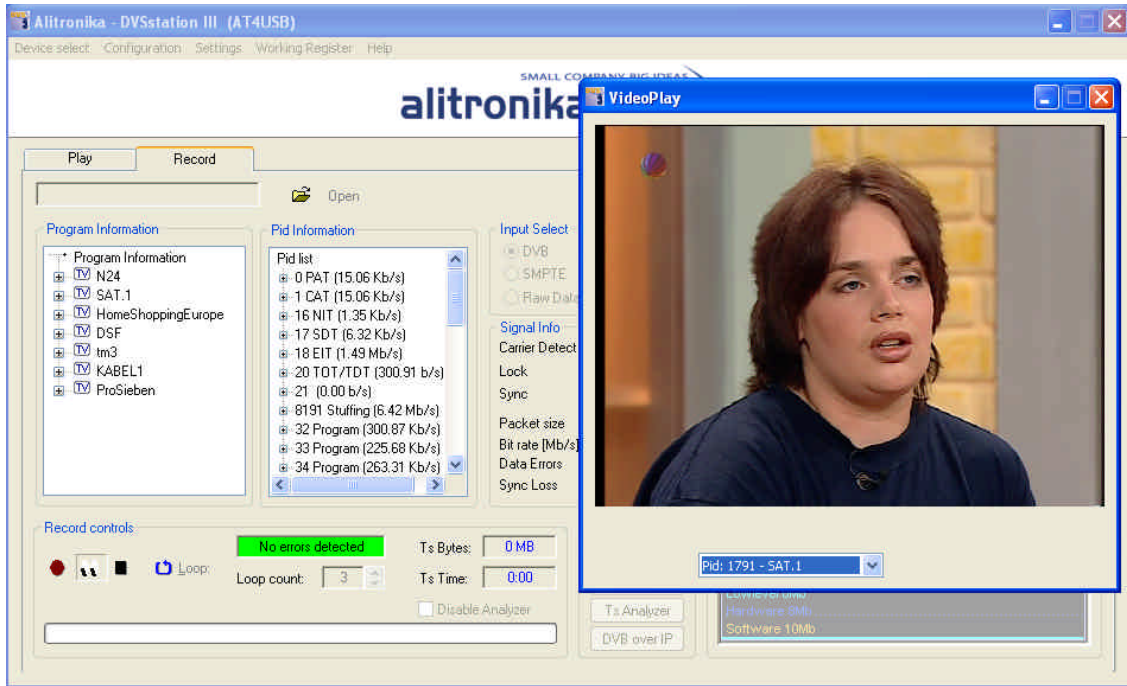
### Play Screen



### Record Screen



# Video Viewer



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