

Digital Video Interfacing Products

AT140USB

DVB-ASI input and output

Small Handheld size

No PC/Laptop needed!



Standard Features

- High Speed USB 2.0.

- Windows XP, Vista & Windows7 (64bit) Drivers and **SDK**
- 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

- Programmable Output Bit Rate.
>Connected to PC/Laptop: 0 to 214 Mbit/s
>Stand alone mode : 0 to 50Mbit/s
- Null Packet Insertion by hardware.
- Selectable Burst size mode & continuous mode TS output.
- Hardware TS generation.

Application

Ideal solution for all applications. When connected to a PC/Laptop, the AT140USB operates just like a standard DVB-ASI TS player & recorder, identical to AT40USB. In stand alone mode of operation, the AT140USB does not need a PC. Transport Streams could be played back from or recorded onto the ON-BOARD Compact Flash Memory device. A Micro-Processor operating on embedded software, does the job of the PC/Laptop.

Targeted for Digital Video Professionals, Sophisticated End Users and OEMs, the "AT140USB" 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.

Similar Products



iDoitAll

A).USB Based TS Processors:

- AT400USB: ASI/SPI;SDI In+Out(DeskTop)
- AT40USB: ASI In+Out
- iDoitAll: ASI/SPI/SDI In+Out
- AsiPod: ASI In+Out (Pocket Size)
- No External Power Supply Needed



iMod(New)

B).Stand alone Modulators

- AT250USB: ATSC 8-VSB Modulator
- AT270USB:QAM-A/B/C Modulator
- AT280USB:DVB-T/H Modulator
- Size:140*130*30mm

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: 120mmx100mmx30mm

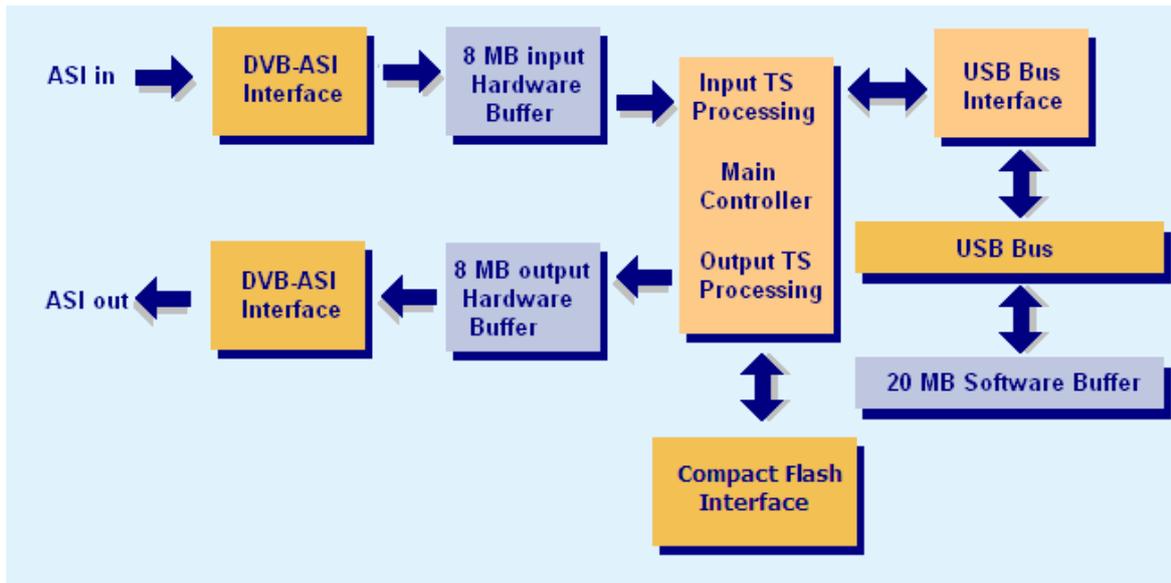
1 GENERAL DESCRIPTION

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

The "AT140USB" is a USB based interface device suitable for Recording, Playing and Analyzing of DVB-ASI Transport Streams.

How does it all work ? When playing or Recording Transport Stream using a PCI or USB device from Alitronika, there is hardly any processing power needed. This is due to the fact that Alitronika devices are real hardware based devices so the hardware carries out all the function. This is in contrast to devices supplied by others vendors, often re-branded devices with addition of their application software. By adding the extra processing power needed, the AT140USB is capable of playing back any TS files of up to 50Mb/s. The TS files for play back could be recorder on the Compact Flash device in 3 ways, by connecting a DVB-ASI stream to DVB-ASI input of AT140USB, using DVStation3, Alitronika's FREE application software or simply by placing the Compact Flash device in any Flash Reader Port of a PC/Laptop and just copying the files onto it.

2 BLOCK DIAGRAM



3 EXTERNAL INTERFACES

The external interfaces for the AT140USB are shown. There are 3 BNC connectors for the Serial input, Loop & output of DVB-ASI, as well as USB and DC power inlet connectors. The Unit is supplied with power supply and USB2.0 cable.

The three LEDs in front of the unit function as follows:



PWR - Top LED	Power LED	ON = Power is on
		OFF = Power is off
CD - Middle LED	Play/ Record LED	ON = Device is Playing/Recording TS
		Flashing = Play /Record not activated

In Record mode this LED indicates that a Carrier has been detected.

In Play mode this LED indicates that the output section has valid TS.

LCK - Bottom LED	LOCK LED	ON = Device is locked to TS
		Flashing = No lock has been achieved

In Record mode this LED indicates that the device has locked into incoming TS.

4 APPLICATION

In Play mode this LED indicates that the output section has locked into outgoing TS.

Targeted for Digital Video Professionals, Sophisticated End Users and OEMs the AT140USB is an ideal solution for a number of applications such as, universal interface for MPEG-II TS 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.