

Digital Video Interfacing Products

iDo it All (AT40XR2USB)

- ◆ DVB-ASI/SPI input and output
- ◆ SDI Recording & Play back
- ◆ Small Handheld size
- ◆ No External Power Supply needed

The Ultimate device. Combines functions of 10 Devices.



Standard Features:

- ◎ High Speed USB 2.0
- ◎ Windows 2000, XP Drivers & SDK
- ◎ Free DVStation3 Alitronika's Application Software
- ◎ Supports DVB According to Standard A1010 Rev1 & 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.

Specifications:

- ◎ On Board Buffer: 16Mbytes
- ◎ Serial Connectors: 75 Ohms BNC
- ◎ Input Return Loss: >15 dB
- ◎ Input Signal level: 800 mV +/- 10%
- ◎ Output Signal level: 1.0Vp-p nominal
- ◎ Parallel Connectors: 25-pin sub-D
- ◎ DVB-ASI Input/Output Bit Rate: 0 to 214 Mbit/s
- ◎ DVB-SPI Input/Output Bit Rate: 0 to 108 Mbit/s
- ◎ Bit Rate Stability: +/- 25ppm
- ◎ DVB-ASI Input/Output Clock: 270 MHz
- ◎ DVB-SPI Input/Output Clock: 0 to 13.5 MHz
- ◎ DVB-SPI Input/Output Level: LVDS & LVTTTL

Size:

- ◎ LxWxH: 120mm x 100mm x 30mm

Application:

Targeted for Digital Video Professionals, Sophisticated End Users and OEMs, the "iDo it All" is an ideal solution for a number of applications such as:

- ◎ Development Tools.
- ◎ ASI to SPI & SPI to ASI and LVDS to TTL or TTL to LVDS conversions.

- ◎ 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
- ◎ SDI Recording & Play back

◎ **Combines functions of 10 Devices.**

- 01).DVB-ASI Recorder
- 02).DVB-ASI Player
- 03).DVB-SPI(LVDS Or LVTTTL/LVCMOS) Player
- 04).DVB-SPI(LVDS Or LVTTTL/LVCMOS) Player
- 05).SDI Recorder
- 06).SDI Player
- 07).ASI To SPI Converter
- 08).SPI To ASI Converter
- 09).LVDS To LVTTTL/LVCMOS Converter
- 10). LVTTTL/LVCMOS To LVDS Converter

"1>9" is Possible!!

Similar Products:



AsiPod
 ● DVB-ASI In+Out
 ● Pocket Size



AT40USB
 ● DVB-ASI In+Out
 ● Small Handheld Size



AT400U/SP
 ● DVB-ASI In+Out
 ● DVB-SPI In+Out
 ● SDI In+Out

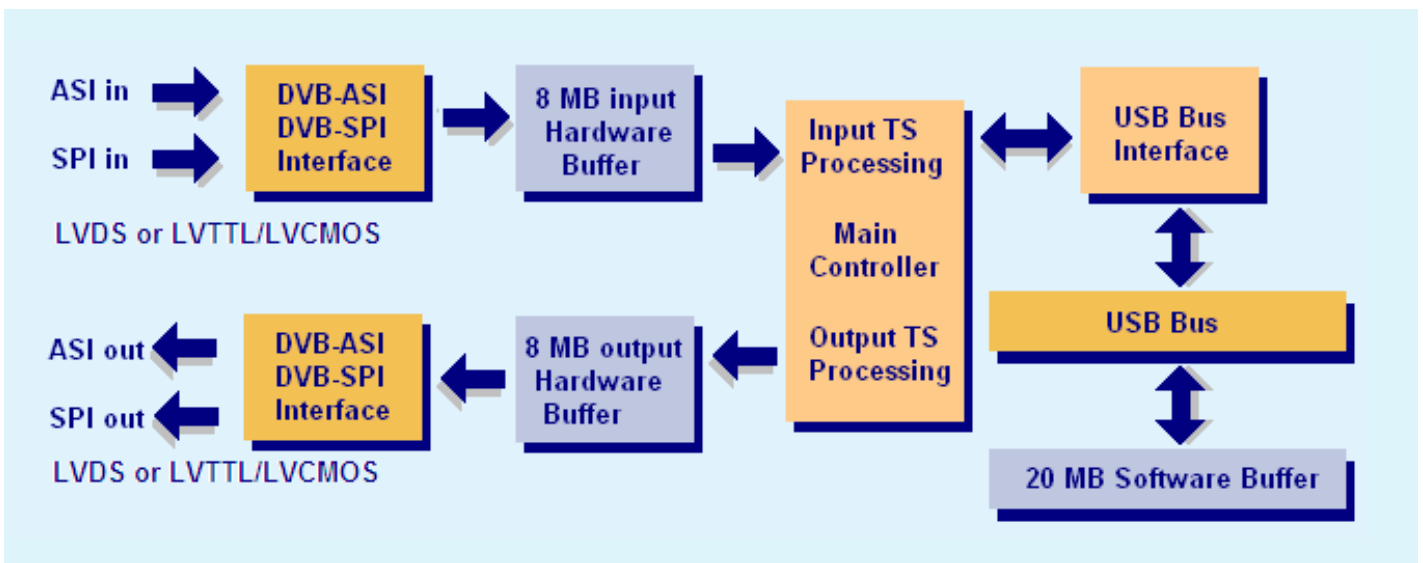
1. GENERAL DESCRIPTION

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

The "iDo it All" is a USB based interface device suitable for Recording, Playing and Analyzing of DVB-ASI/SPI & SDI Transport Streams.

2. BLOCK DIAGRAM

The figure illustrates the block diagram of the "iDo it All" 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 "iDo it All" 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 "iDo it All" are shown. There are Four 25-pin D-type connectors for DVB-SPI(LVDS or LVCMOS/LVTTTL) Inputs&Output, as well as 2 BNC Connector for the Serial input and output of DVB-ASI&SDI and a USB2.0 inlet connector. The Unit is supplied with USB2.0 cable.

The three LEDs on the Front of the unit functions as:

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
OFF = Power is off

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 Playing/Recording TS
OFF = Power is off

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

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



4. APPLICATION

Targeted for digital video professionals, sophisticated end users and OEMs the "iDo it All" 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.