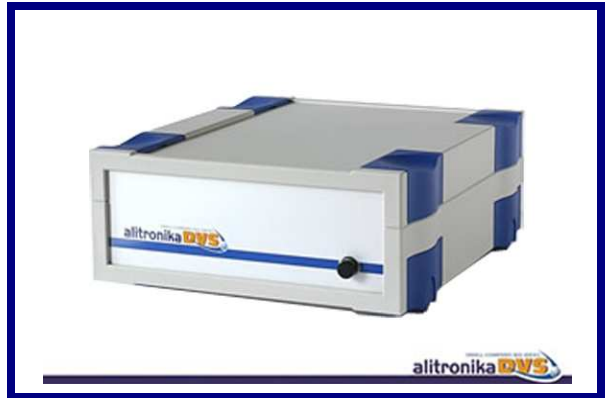


Digital Video Interfacing Products

AT660USB

- ◆ DVB-S2/S Receiver, Recorder & Converter
- ◆ DVB-S2/S RF Input
- ◆ DVB-ASI / DVB-SPI Outputs
- ◆ DVB-S2/S to DVB-ASI/SPI Converter



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.
- ◎ DVB-S2/S Direct TV Compliant QPSK Reception.
- ◎ Demodulation Standards: DVB-S, DVB-S2, DVB/DSS.
- ◎ Input Frequency Range: 950 MHz to 2150 MHz
- ◎ Symbol Rate: 2 Mbaud to 45 Mbaud.
- ◎ Channel Bitrate: 190Mbit/s.
- ◎ Supports 188, 204 Transport Packet Sizes
- ◎ RF Loop Through Output
- ◎ Simultaneous two Serial (ASI) & one Parallel (SPI) Outputs

Application:

Targeted for Digital Video Professionals, Sophisticated End Users and OEMs, the AT660USB is an ideal solution for a number of applications such as:

- ◎ Development Tools.
- ◎ IP to DVB Gateway.
- ◎ DVB-S/S2 to DVB-ASI & DVB-SPI Converter
- ◎ MPEG-II TS Recording, Monitoring, Playing & Processing
- ◎ Software Based MPEGII Decoders

Power Consumption & Size

- ◎ Power Consumption: 5 Watts
- ◎ Size LxWxH: 210mm x 170mm x 65mm

RF Specifications:

- ◎ RF Tuner Connector: 75 Ohms IEC female Type
- ◎ Loop Through Connector: 75 Ohms IEC male Type
- ◎ Input Frequency Range: 950 MHz to 2150 MHz.
- ◎ Input Signal Level: -65dBm to -25dBm @ 27.5 Mbaud
- ◎ Maximum Symbol Rate:
 - QPSK/LDPC/BCH: 45MSPS
 - 8PSK/LDPC/BCH: 30MSPS
 - DVB-2-45MSPS
- ◎ DisEqc: DisEqC 2.X
- ◎ Standards: DVB-S2/S & Direct TV
- ◎ Demodulation Standard: DVb-S2 & DVB/DSS compliant.
- ◎ Modulation Method:
 - DVB-S: QPSK,
 - DVB-S2: QPSK, 8PSK, 16APSK & 32APSK
- ◎ Supported Code Rate:
 - QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
 - 8PSK: 3/5, 2/3, 3/4, 4/5, 5/6, 8/9 and 9/10
 - 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9 and 9/10
 - 32APSK: 3/4, 4/5, 5/6, 8/9 and 9/10

ASI/SPI Specifications:

- ◎ On Board Buffer: 16Mbytes
- ◎ DVB-ASI Connectors: 75 Ohms BNC
- ◎ DVB-ASI Signal level: 1.0Vp-p nominal
- ◎ DVB-ASI Clock: 270 MHz
- ◎ DVB-ASI Output Bit Rate: 0 to 204 Mbit/s.
- ◎ DVB-SPI Output Clock: 0 to 13.5 MHz.
- ◎ DVB-SPI Output Bit Rate: 0 to 108 Mbit/s.
- ◎ DVB-SPI Connector: 25-pin sub-D
- ◎ DVB-SPI Input Level: LVDS & LVTTL

Similar Products:



- AT660PCI**
- DVB-S2/S RF In
 - 2* DVB-ASI Output
 - DVB-SPI Output



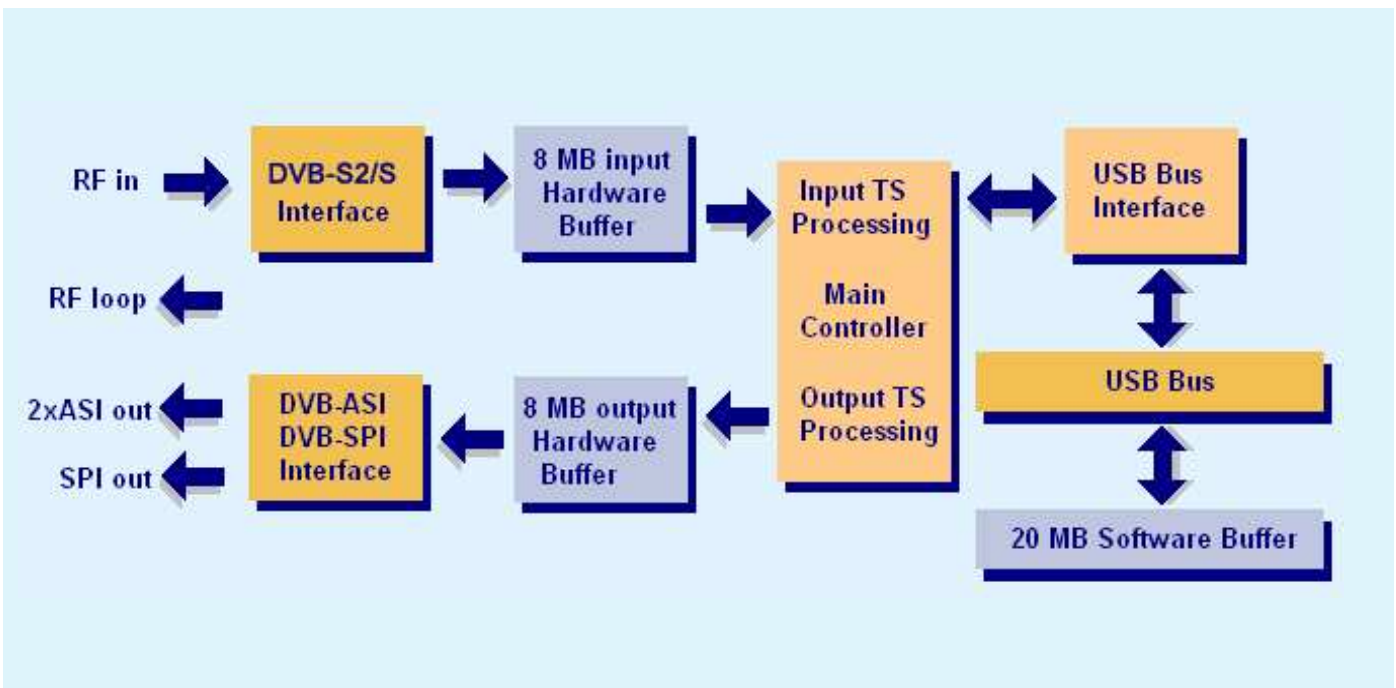
- AT780USB (Or PCI)**
- DVB-T2/T/C RF In
 - 2* DVB-ASI Output
 - DVB-SPI Output

1. GENERAL DESCRIPTION

A member of Alitronika's state of art digital video interfacing products. The AT660USB is a USB based interface device suitable for Recording, Playing and Analyzing of DVB Transport Streams.

2. BLOCK DIAGRAM

FIG4 illustrates the block diagram of the AT660USB device. The device communicates with the PC via the USB interface device. On the input side, the RF signal is demodulated and then de-coded before entering the PC via the main controller and the USB bus as Full TS files. On the output side, the MPEG-II transport streams enter the device via the USB interface device. The AT660USB 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 AT660USB are shown. Two 75 Ohms IEC type connectors for the RF input & Loop Through, 2 BNC connectors for DVB-ASI I/O and two 25-pin D-type connector for DVB-SPI Outputs (LVDS & LVTTTL) as well as USB and DC power inlet connectors. The Unit is supplied with power supply and USB2.0 cable.

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 AT660USB 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 s