

ATSC Analyzer Kit™

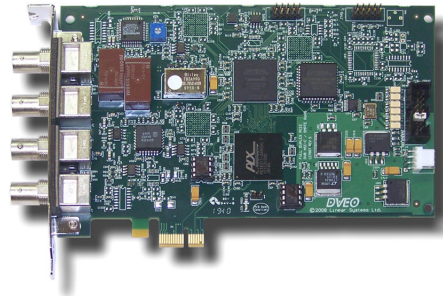
**Real Time SMPTE 310M Analyzer Kit
Consisting of an ATSC Master™ II FD PCIe
Card and a Copy of COOL.STF.com's TS
Reader™ Transport Stream Analyzer/
Decoder/Player. Enabled via a DVEO
Software Patch to the TS Reader Application
to Work with SMPTE 310M Streams.**

Features

- Transmitter and receiver on the same card
- Two SMPTE 310M Inputs -- Primary BNC and secondary via header
- Two buffered mirrored SMPTE 310M outputs
- Software control of primary or secondary input source selection
- Mechanical relay bypass on power failure
- Decodes MPEG-2 tables
- Decodes MPEG-2, MPEG-4, and H.264 video in thumbnail format
- Records transport streams to a disk file
- Automatic transport stream recording and export for unattended operation
- Records an individual program to a disk file with PAT/PMT regeneration
- PID usage graph with percentage displays
- PID graph is color coded to indicate unscrambled and scrambled PIDs
- Counts continuity and TEI errors on mux and PID-by-PID basis
- Records PIDs from a mux either as separate files or combined in their received order
- Variable resolution real-time or average charting
- Indicates CC/DTVCC streams for ATSC streams
- TCP/IP based remote control server to allow TSReader to be operated remotely by other software
- EPG grid for ATSC networks
- Runs on Windows 2000 or Windows XP
- Ships with TS Reader Standard, option for TS Reader Professional

Applications

- Monitor incoming or outgoing transport streams
- Capture or playback transport streams for testing
- Record and analyze transport streams
- Record transport streams of required data size
- Interface to video servers and studio equipment



Overview

In North America and in certain other countries, SMPTE 310M has been designated as the standard for digital television and the delivery of MPEG-2 transport streams via 8VSB modulated signals. ATSC is the name of the organization that defined this specification, and SMPTE 310M is the standard which the transport stream must meet in order to interface to 8VSB modulators.

We have combined our ATSC Master™ II FD PCIe input/output card with a popular and very useful transport stream analyzer, TSReader™ from COOLSTF.com. TSReader is also a decoder, recorder and stream manipulator. TSReader shows an overview of the channels and tables carried in a transport stream mux. It is also useful for recording, monitoring, and viewing transport streams.

The ATSC Analyzer Kit comes with your choice of TSReader Standard or Professional. TSReader Professional offers additional features – including an archiving mode, closed caption decoder, and an EPG (Electronic Programming Guide) server.

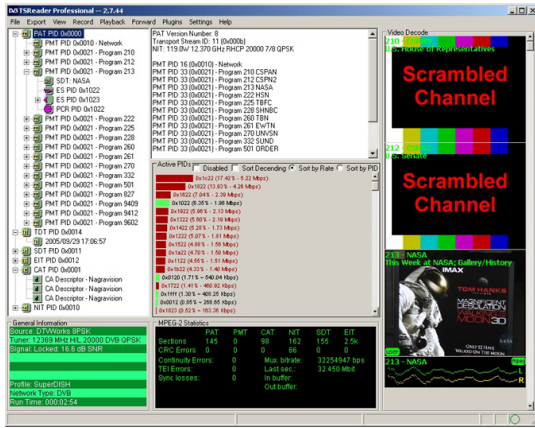
We have several customers who use the ATSC Analyzer Kit to monitor the stream just before it reaches their transmitter.



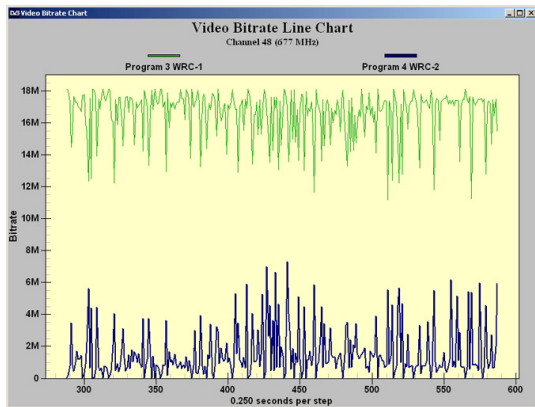
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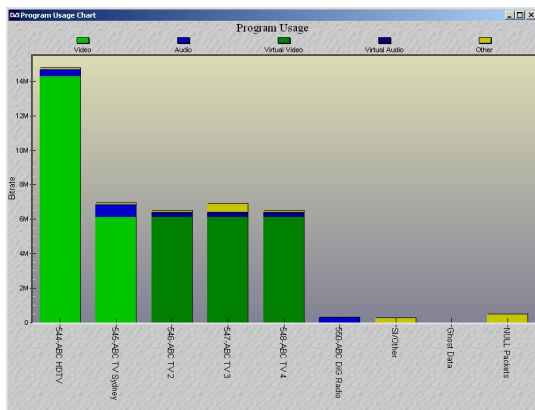
www.dveo.com



Main GUI showing PID information



Video bitrate chart



Program bandwidth usage chart

Ordering Info

ATSC Analyzer Kit/RS PCIe Single SMPTE310M Inputs, Dual Outputs, Mechanical Bypass Relay

ATSC Analyzer Kit/Pro Any of the above with TSReader Professional instead of TSReader Standard

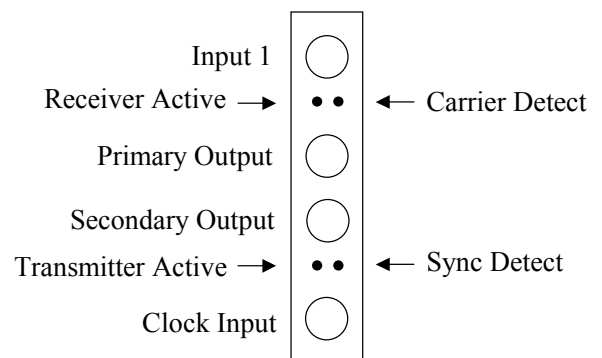
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Input/Output Connectors	75-Ohm BNC Connector
Coaxial Cable Type	75-Ohm impedance usable up to 850 MHz
External Clock Input	75-Ohm DC Blocked ECL
Data Input/Output	SMPTE 310M -1998 8VSB Transport Stream
Data Rate	19.39265846 Mbps
Data Input Voltage	800 mV ± 10%Peak
Data Input Offset	0.0 V ± 0.5 V
Bus Interface	Single Lane (x1) PCIe 1.0a
Card Size	6.875 x 4.2 inches (175 x 107 mm)
Voltage Requirements	+5 V
Operating Temperature	0° to 55°C
Operating Humidity	To 90%, non-condensing
Clock Source Selection	Software controlled

ATSC Card Development Software

- Drivers for Windows® 7 32 and 64 bit, Server 2003, Server 2008, Windows® 2000, and Windows® XP
- Synchronous API – API for Windows®
- Linux® Master Driver and SDK

ATSC Card Connector Diagram



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