

TVB593 8VSB

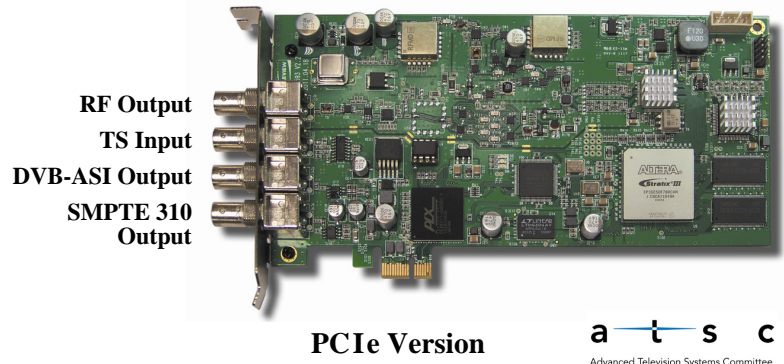
VHF/UHF 8VSB Transport Stream Modulator with DVB-ASI Input and Sophisticated User Interface. Frequency Agile, Field Upgradeable with Other Modes. (With Sophisticated User Interface with Scheduling). Transport Stream Input via PCIe Bus or from BNC Connector on the Bracket. RF Output. For Digital Signage, STB Testing, and Laboratory Applications. This Device Feeds Either an Antenna or Coax Cable.

Features

- Transmits real time video or stored video from the server hard drive and sends it to multiple HD monitors simultaneously
- Input: IP, DVB-ASI or SMPTE 310M transport streams via PCIe bus or BNC bracket connector
- Output: 8VSB (ATSC)
- When ASI is input the TS can be any rate since it is upconverted and remuxed to ATSC rate
- When DVB is input the bit rate can be anything above 2 Mbps or below 19 Mbps
- Includes ASI port for simultaneous ASI and RF output if TS is pulled from hard drive
- Frequency agile
- On board Channel 2~69 selectable RF output up-converter
- Programmable RF output level (0.1 dB step)
- Can superposition white noise over modulated signal and control the output C/N ratio
- Feeds either an antenna or coax cable
- Field upgradeable – can be reprogrammed to add other profiles
- Supplied with Windows® based Transport Stream Player application with Scheduler
- Playout Scheduler – schedule tasks (5 maximum) to run daily, weekly or monthly at a certain time
- Includes transport stream analyzer
- Freq Config GUI supported via Windows® 2000, Windows XP, Windows 7, Vista 32 bit, and Linux®
- Customer oriented API is also available
- Sample transport streams available
- 0dBm amplifier included

Applications

- Engineering labs
- In Store Demo of plasma televisions
- Digital Signage
- Test Equipment for RF demodulators
- Hotel and Lodging video systems



Overview

RF modulators convert a video signal to RF (radio frequency) so the video can be transmitted to a television via its RF input.

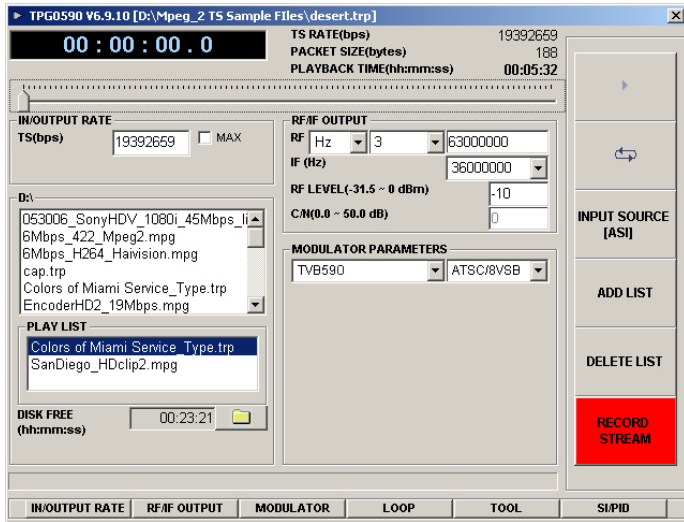
8VSB is the modulation standard for American over the air broadcast. It is the RF modulation format used to deliver MPEG-2 encoded content to television sets in North America.

Our **TVB593 8VSB** modulator PCIe card transmits real time video or stored video from the server hard drive and sends it to multiple HD monitors simultaneously, using RF as a carrier. The TVB593 8VSB can connect via an antenna or coaxial cable, and features RF output.

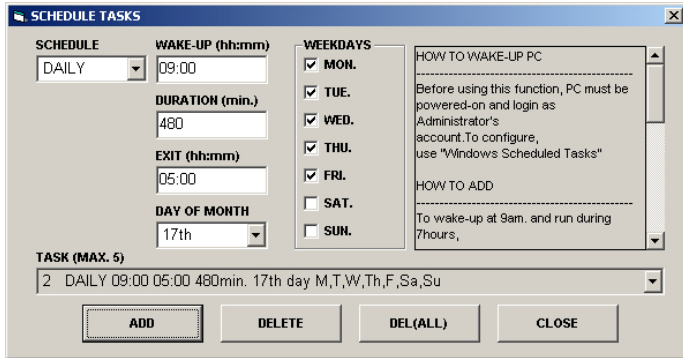
It is suitable for set top box testing, 8VSB receiver testing, laboratory applications, digital signage, and video feeds in public areas such as hotels and trade shows.

This card is *field upgradeable* – you can purchase licenses for a wide variety of additional modulator profiles and upgrade the card immediately. Modulator profiles typically used in North America include QAM, ATSC M/H, and 8VSB. Modulator profiles typically used in Europe are DVB-T, DVB-T2, DVB-H, DVB-C2, DVB-S, and DVB-S2. Modulator profiles typically used in Asia are ISDB-T, ISDB-S, DTMB, CMMB, and T-DMB.

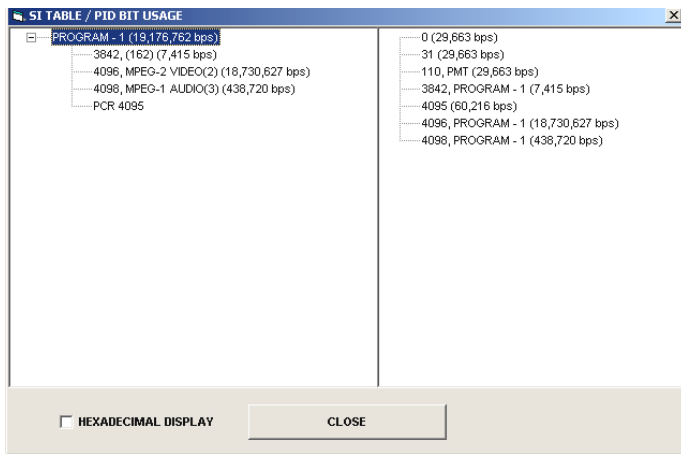
DVEO
Broadcast Division
Computer Modules, Inc.
11409 West Bernardo Court
San Diego, CA 92127
Tel: (858) 613-1818 Fax: (858) 613-1815
www.dveo.com



Main GUI



Playout Scheduler



SI Table

Ordering Info

TVB593 8VSB

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Board Specifications

Transport Stream Input	From Hard Disk through PCI Express, or via BNC DVB-ASI connector
Bit Rate	Up to 90 Mbps
ASI/SMPTE 310M Input/Output	Connector: 75 ohm BNC
RF Output	Connector: 75 ohm BNC Freq: VHF/UHF 55~867 MHz L-BAND 956~2036 MHz Level: VHF/UHF -31.5 to 0 dBm L-BAND -25 dBm max Freq accuracy: +/-5 KHz max Attenuation step: 0.1dB Phase noise <-90dBc/Hz @ 10 KHz RF step size: 50 KHz step (except for TDMB: 8 KHz step)
PCIe Bus	PCI express x1 compliant
Dimensions	HxWxL: 25 mm x 107 mm x 210 mm (.98 x 4.21 x 8.27 inches)
Drivers	Windows® 7 (32/64 bit), XP (32/64 bit), 2000, Vista (32/64 bit), WDM, and Linux®
Operating Conditions	Temperature: 0~45° C (32 to 113° F) Humidity: 0~85%
Conformities	FCC, UL, RoHS, CE Mark

8VSB Specifications

Standard	2/3 Rate Trellis Coding conforming to ATSC A.53 specs.
Symbol Rate	Fixed at 10.7622 Symbol/Sec
EIA	Supports EIA 50-860 MHz Band
ECC	Reed Solomon (204, 188, T=8) encoding



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11409 West Bernardo Court
San Diego, CA 92127

Tel: (858) 613-1818 Fax: (858) 613-1815

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