

TVB590

DTV Modulator PCI Card



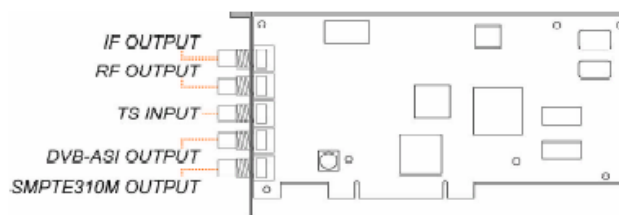
Overview

The digital streaming DTV modulator PCI card can play MPEG stream from hard disk and DVB-ASI/SMPTE-310M input into on-air signal. The output can be industry standard 55~860 MHz and 964~1700MHz selectable RF signal. On board synthesizer can generate stable and accurate symbol clock and tuning frequency. The transport stream can be supplied through PCI card interface and DVB-ASI/SMPTE-310M input..

Features

- Transport stream from hard drive thru PCI interface and DVB-ASI/SMPTE-310M input
- OFDM (DVB-T/DVB-H) modulation option available
- DVB-S2 modulation option available
- QAM (DVB-C/ITU-T J83 Annex B) modulation option available
- QPSK (DVB-S) modulation option available
- ATSC 8VSB modulation option available
- On board VHF/UHF RF output up-converter
- DVB-ASI output for monitoring
- Frequency range band III and L-band
- Software-selectable PRBS modes and adjustable level
- Real-time attenuatable RF output from 0 to 31.5 (0.5dB step)

Board View



Board Specifications

Transport stream input From Hard disk Thru PCI Bit rate ~90 Mbps DVB-ASI input/output Connector: 75 ohm BNC	IF output Connector: 75 ohm BNC Freq: 36 MHz/44 MHz selectable PCI bus PCI version 2.1 compliant	Physical/Environmental HxWxL: 210mm x 107mm x 25mm Driver Windows XP, 2000 WDM and Linux Application software Televue made GUI
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DVB-T/H Option Specifications

Standard ETSI EN300744 v1-4-1 compatible Non-hierarchical single program mode Punctured code rate 1/2, 2/3, 3/4, 5/6, 7/8 selectable Constellation QPSK, 16-QAM, 64-QAM	Transmission mode 2K/4K/8K mode selectable 4K mode only for DVB-H Guard interval 1/4, 1/8, 1/16, 1/32 selectable In-depth interleaving Only for DVB-H	Bandwidth 5/6/7/8 MHz mode selectable 5 MHz only for DVB-H RF output Connector: 75 ohm BNC Freq: 55~860 MHz, 1036~1750 MHz Level: -30dBm typical
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8VSB Option Specifications

Standard ATSC A.53, 8VSB mode	RF output Connector: 75 ohm BNC Freq: 55~860 MHz, 1036~1750 MHz Level: -25dBm typical	
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QAM Option Specifications

Standard ITU-T J.83 Annex A/C and B compatible	Constellation 16-QAM, 32-QAM, 64-QAM, 128-QAM and 256-QAM selectable (64-QAM and 256-QAM for Annex B)	RF output Connector: 75 ohm BNC Freq: 55~860 MHz, 1036~1750 MHz Level: 0dBmV typical
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QPSK Option Specifications

Standard DVB-S compatible	RF output Connector: 75 ohm BNC Freq: 956~1750 MHz Level: -35dBm typical	Symbol rate 1~45 MHz
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DVB-S2 Option Specifications

Standard ETS 302 307 Codes rates 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, and 9/10 supports	Modulation mode QPSK, 8PSK, 16APSK, 32APSK Roll-off 0.20, 0.25, 0.35, None selectable 2~35MHz w/o shaping filter 2~22MHz w/ shaping filter	RF output Connector: 75 ohm BNC Freq: 956~1750 MHz Level: -40dBm typical Symbol rate 2~35 MHz
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T-DMB Option Specifications

Standard Compliant with ETS 300401 and ETS300799	RF output Level: -30dBm (at band III), -45dBm (at L-band)	Transmission modes DAB transmission modes I, II, III, IV - Transmission mode automatically selected from the ETI stream Supports ETI(NI) and ETI(NA) file format
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