

TVB593 DVB-C2

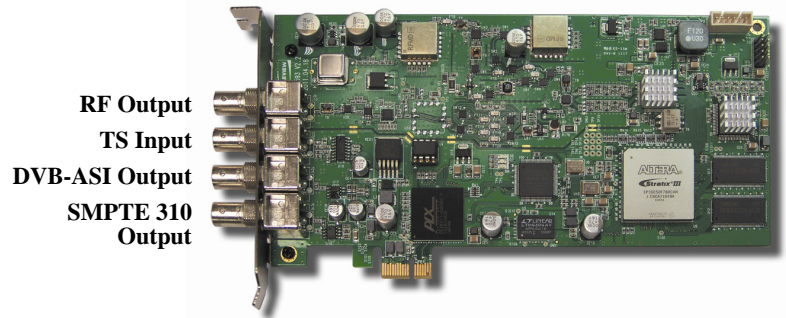
DVB-C2 Compliant Transport Stream Modulator with DVB-ASI or PCIe Bus Input. Frequency Agile (55-810 MHz), Field Upgradeable with Other Modes. (With Sophisticated User Interface with Scheduling). RF Output. For Digital Signage, STB Testing, and Laboratory Applications. This Device Feeds Either an Antenna 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: DVB-C2
- Includes ASI port for simultaneous ASI and RF output if TS is pulled from hard drive
- Frequency agile
- RF Output Frequency: 55-860 MHz, 956-1750 MHz
- Payload = Up to 38 Mbps
- ETSI EN302 769 compliant
- QAM 16, 64, 256, 1024, and 4096 available under software control
- On board channel 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 Demos of QAM receivers
- Digital Signage
- Test Equipment for RF demodulators
- Hotel and Lodging video systems



PCIe Version

Overview

RF modulators convert video to RF (radio frequency) so the video can be transmitted to a television via its RF input. QAM is the RF modulation format used for cable in the U.S. This modulation format is designated by the ITU organization.

Our **TVB593 DVB-C2** 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 DVB-C2 can connect via an antenna or coaxial cable, and features RF output.

It is suitable for set top box testing, QAM 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.



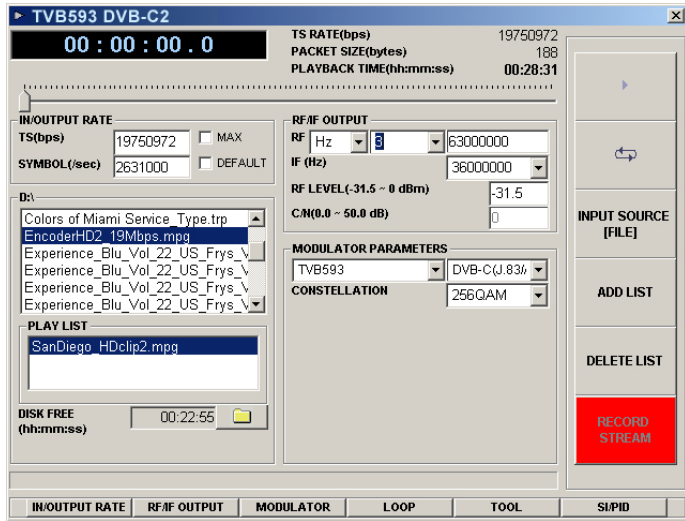
Computer Modules, Inc.

11409 West Bernardo Court

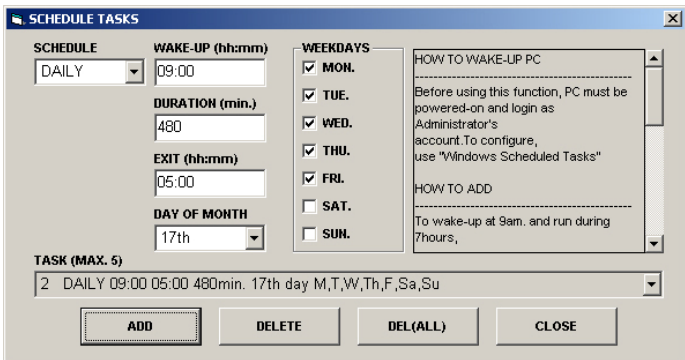
San Diego, CA 92127

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

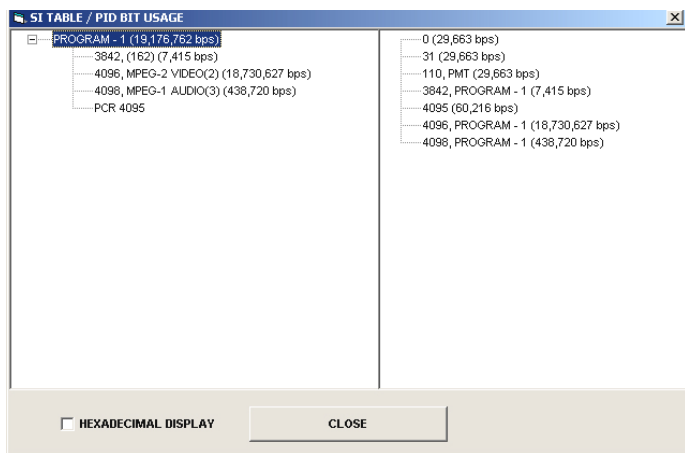
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Main GUI



Playout Scheduler



SI Table

Ordering Info

TVB593 DVB-C2

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Transport Stream Input	From Hard Disk through PCIe, 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 -25d Bm 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

Note: TVB593 DVB-C2 is not compatible with SA or Motorola QAM set top boxes since they have proprietary signaling.

DVB-C2 Specifications

Standards	ETSI EN302 769 compliant
L1 TI Mode	None, Best Fit, 4 Symbols, 8 Symbols
Guard Interval	1/64, 1/128
Data Slice Type	Type 1, Type 2
Time Interleaving Depth	'00'
FEC Header Type	Robust, HEM
BB Header Format	Normal, HEM
Number of PLP	Single PLO
PLP Code Rate	2/3, 3/4, 4/5, 5/6, 8/9, 9/10
PLP Modulation	16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM (256QAM, 1024QAM, 4096QAM configurations could have some post LDPC errors)
PLP FEC Type	16K, 64K
Bandwidth	6/7/8 Mode selectable



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