

# TVB598 ISDB-Tb

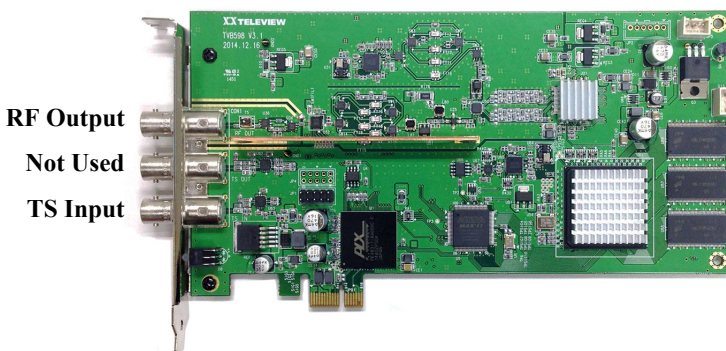
Frequency Agile, ARIB Compliant, ISDB-Tb Transport Stream Modulator with PCIe Bus Input. Field Upgradeable with Other Modes. (With Sophisticated User Interface with Scheduling.) RF Output. For Digital Signage, STB Testing, and Laboratory Applications. Ships with Windows® Based Transport Stream Player with Scheduling. Linux® and Windows® SDK Available for Customization. This Device Feeds Either an Antenna or Coax Cable. Perfect for simulating ISDB-Tb transmissions in a lab setting.

## Features

- Transmits real time video or stored video from the server hard drive and sends it to multiple HD monitors simultaneously
- Input: IP transport streams via PCIe bus or BNC bracket connector
- Output: ISDB-Tb
- RF output if content is pulled from hard drive
- Frequency agile
- ARIB STD-B31 v1.6 compliant
- RF Output Frequency: 55-860 MHz
- Payload = Up to 30.979 Mbps
- 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 QAM, QPSK, DVB-T, DVB-S+S2, and other profiles or new firmware
- 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
- Freq Config GUI supported via Windows® and Linux®
- Customer oriented API is also available
- Sample transport streams available
- 0dBm amplifier included

## Applications

- Engineering labs
- In Store Demos of ISDB-T 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. ISDB-T (Integrated Services Digital Broadcast – Terrestrial) is the digital broadcasting standard used in Japan and Brazil for mobile and regular terrestrial digital TV.

Our ARIB standard compatible **TVB598 ISDB-Tb** 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 TVB598 ISDB-Tb can connect via an antenna or coaxial cable, and features RF output.

It is suitable for set top box testing, ISDB-Tb 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, 8VSB, and ATSC 3.0. 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.

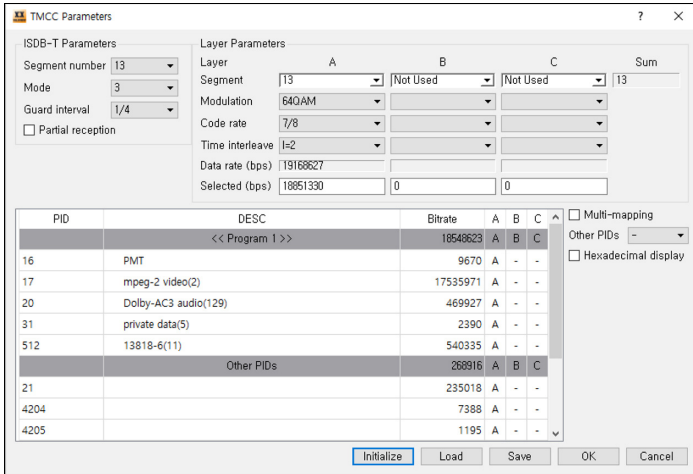


Computer Modules, Inc.

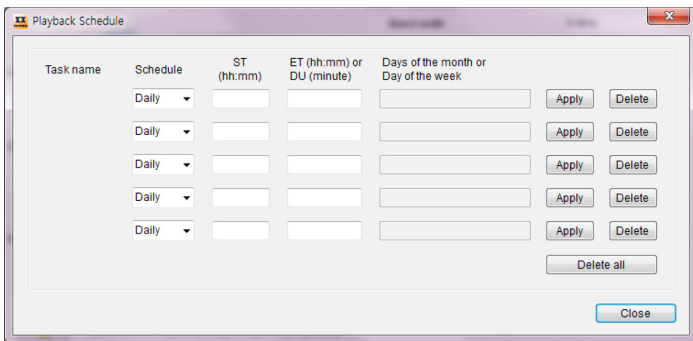
11409 West Bernardo Court  
San Diego, CA 92127

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

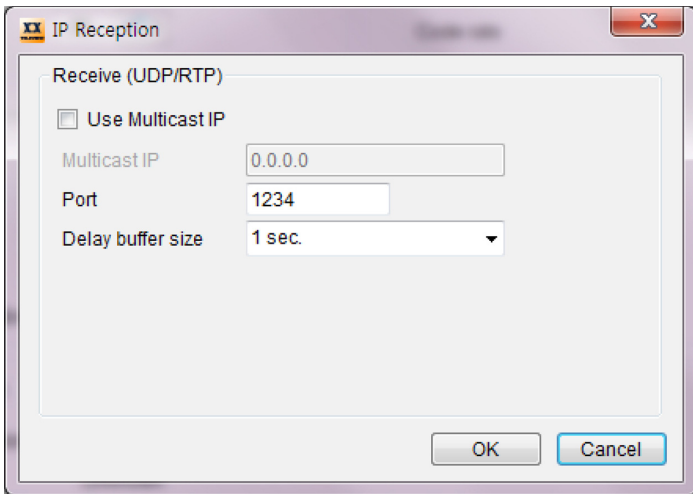
[www.dveo.com](http://www.dveo.com)



ISDB-Tb Parameters



Playout Scheduler



Configure IP Input

Transport Stream Input	From Hard Disk through PCIe
Bit Rate	Up to 30.979 Mbps
RF output	Connector: 75 ohm BNC Freq: VHF/UHF 55~860 MHz Level: VHF/UHF -31.5 to 0 dBm Freq accuracy: Within 3ppm accuracy Attenuation step: 0.1dB Phase noise <-90dBc/Hz @ 10 KHz
PCIe Bus	PCI express x1 compliant
Dimensions	HxWxL: 20 x 110 x 220 mm (.79 x 4.33 x 8.66 inches)
Drivers	Windows® 7/8/10 32 bit/64 bit, 2000, XP (32/64 bit), Vista (32/64 bit), 7 (32/64 bit), WDM, Linux® 32 bit/64 bit
Operating Conditions	Temperature: 0~50° C (32 to 122° F) Humidity: 10% ~ 90%, Noncondensing
Conformities	FCC, UL, RoHS, CE Mark

ISDB-Tb Specifications

Standard	ARIB STD-B31 v1.6 compliant
Modes	Mode I, Mode II, Mode III
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8 selectable
Mapping	DQPSK, QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
Timing	Mode I - 0, 4, 8, 16
Interleaving	Mode II - 0, 2, 4, 8
Length	Mode III - 0, 1, 2, 4
Number of Segments	1 / 13 Segment
Support TMCC Info Generation (ISDB-T info and IIP)	*ISDB-T direct modulation from DVB-ASI input is not supported

Ordering Info

TVB598 ISDB-Tb



Computer Modules, Inc.  
11409 West Bernardo Court  
San Diego, CA 92127

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

[www.dveo.com](http://www.dveo.com)