

ReMod™ 8VSB/ASI+VCT

Broadcast Quality 8VSB Receiver. Decodes 8VSB RF to ASI and IP streams with VCT (Virtual Channel Table) conversion. 1 RU frame with one single channel 8VSB demodulator module and one DVB-ASI modifier module. Designed to create custom made PSIP metadata and programs for re-modulation, etc.



Features

- Input: 8VSB, in RF format – Embedded HD/SD tuner
- Outputs: DVB-ASI
- VCT conversion: Up to 32 programs at once
- VCT conversion capabilities (Program ID, Program Major Number and Program Minor Number)
- VCT converter supports IP and ASI inputs
- VCT converter supports IP and ASI outputs
- Supports Pro-MPEG FEC on IP input
- Enables EIT Table to be passed through without any modification
- PSIP display – PAT, PMT, MGT, VCT, EIT, STT
- New preview screen displays decoded output
- Optional FAULT contact output
- ETS 302 307 standard compliant
- White noise addition over modulated signal to have desired C/N ratio
- SNMP (10/100 Ethernet) remote web-based LAN management
- Firmware upgradeable via Internet

Applications

- Re-broadcast custom made PSIP metadata and programs for 8VSB
- 8VSB to DVB-ASI converter

Overview

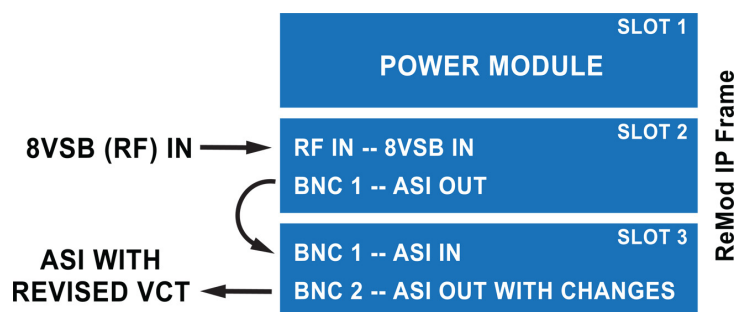
8VSB is the modulation standard for American over the air broadcast. It is the RF modulation format used to deliver MPEG-2 encoded content to television sets in North America.

The ReMod 8VSB/ASI+VCT is perfect for re-broadcasting custom made metadata for the same or different modulations. It supports changes to the VCT (Virtual channel table) that can create or change virtual channels on the fly. Operators can edit channel names and major or minor channel numbers. The system also enables EIT's (Event Information Tables) containing program guide information to be passed through without any modification.

The ReMod 8VSB/ASI+VCT features a space-saving 1 RU design consisting of a modular rack demodulator/decoder with one 8VSB RF input module and one DVB-ASI/IP output module.

Each demodulator module is equipped with DVB-ASI and IP outputs. Optional test modulators can be equipped with DVB-ASI and IP inputs.

Block Diagram



Computer Modules, Inc.

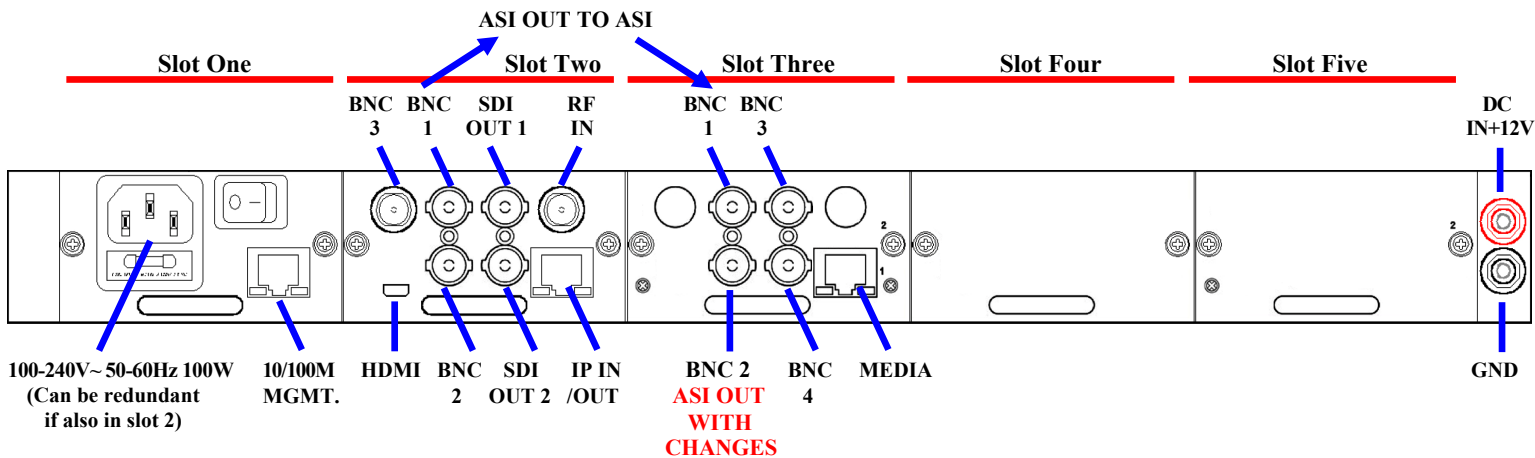
11409 West Bernardo Court

San Diego, CA 92127

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

www.dveo.com

Rear View



Specifications

Front Display/Keys	<ul style="list-style-type: none"> • 2 lines by 40 characters LCD • 11 keys for Easy Control • ENTER, EXIT, ARROW, and Slot Selection Keys
Slots	One power supply module, one 8VSB RF demodulator/ decoder module, and one DVB-ASI/IP output module
8VSB RF Input	
Channel	54-864 MHz RF Selectable
Connector	2 x 75 Ohm F-type Connector (DVB-S-S2/QAM or DVB-T+T2 options available)
Sensitivity	> 43.5 dBμ V (UHF) > 35.4 dBμ V (VHF HIGH) > 35.4 dBμ V (VHF LOW)
TS Input	
Formats	IP (with FEC), DVB-ASI
Connectors	75 ohm BNC, RJ-45
TS Output	
Format	DVB-ASI or IP
Connectors	75 ohm BNC, RJ-45
Audio Output	
Signal	AES3-id (Select ASI or AES3-id output at front panel)
Connectors	75 Ohm BNC – one audio output per module
Format	Dolby AC-3 audio with 5.1, AAC, MPEG 1/2, PCM
1st Audio Output (one per module)	Connector: 75 Ohm BNC
Audio Pairs Decoded	Standard – Select any one of four stereo pairs Optional – audio decoder board for selecting one additional stereo pair, for a total of 2 of 4 stereo pairs
Audio Levels	Set to +4dBm for -20dBFS digital audio contents when the audio attenuation menu is set to zero. The audio level can be attenuated using the front panel audio configuration menu, 0~20dB.
Digital Audio Output	Choose either PCM mode or COMPRESSED audio output mode for MAIN channel. The chosen audio mode is used for all BNC output ports. You can have PCM mode only for the SUB channel. You may have COMPRESSED audio out of MAIN channel over BNC port and PCM audio out of SUB channel over BNC port. Output supports 2 channels, not 5.1
Audio Decoding Standards	Dolby Digital AC-3 and HE-AAC and MPEG-1/2 5.1 channel audio decoder (MPEG2 AAC-LC (13818-7), MPEG4 HE-AACv1 (14496-3, 2003) and HE-AACv2 (14496-3, 2004) supported.

Redundancy	ASI or RF input with auto failover
Display	Video and TS parameters displayed via "on screen" mode (see manual)
Ethernet Input/Output	10/100/1000 Mbps, MPEG over RTP/UDP FEC supported (Pro MPEG) (IP in)
Management Ethernet	10/100 Mbps for SNMP, Web-browser manager
Optional FAULT Output	Contact Open on Fault
Output DC Blocking Voltage	50V max
Network Management	NMS supported through SNMP
Local Mgmt.	Front panel display; LCD display for use with decoder module
Unit	1 RU 19-inch rackmountable
Operating Temperature	+0 ~ +45°C (32 to 113°F)
Storage Temperature	-20 ~ +50°C (-4 to 122°F)
Operating Humidity	10 to 90%, Non-condensing
Power Supply Module	AC 100-240V~ 50-60Hz 120W max DC 12V 8A max output
Dimensions	HxWxL: 1.7 x 19 x 13.6 inches (4.3 x 48.26 x 34.55 cm)
Weight	14 lbs. (6.356 kg.)
Conformities	FCC, RoHS CE Mark: Electromagnetic Compatibility Directive 2004/108/EC Low Voltage Directive 2006/95/EC
Option	
ATSC Tuner	8VSB/USA QAM Tuner

Virtual Channel Table (VCT)

The Virtual Channel Table is called TVCT in Terrestrial and CVCT in Cable Signaling.

TVCT (terrestrial virtual channel table) – defines each virtual channel and enables EITs to be associated with the channel. The EIT table (Event Information Table) defines the channel ID, major channel number, and minor channel number.

CVCT (cable virtual channel table) – assigns numbers to each virtual channel and enables EITs to be associated with the channel. The EIT table (Event Information Table) defines the channel ID, major channel number, and minor channel number.

Ordering Info

ReMod 8VSB/ASI+VCT



Computer Modules, Inc.

11409 West Bernardo Court

San Diego, CA 92127

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

www.dveo.com