IP ModTM ISDB-Tb 4ch

Broadcast Quality, Modular, 1 RU frame with four single channel ISDB-Tb RF modulators. ASI, IP, or Files In and **ISDB-Tb out. Designed for Hospitality Industry where ISDB-Tb content is** delivered routinely to televisions via existing RF infrastructure.

Features

- Modulator with up to four each single channel modulator modules
- Inputs: DVB-ASI, files from internal microSD Card, and IP (UDP/RTP)
- Supports Pro-MPEG FEC on IP input
- Outputs: One ISDB-Tb channel per module
- Each modulator module may have up to four BNC connectors which can be DVB-ASI input, DVB-ASI output, or SMPTE-310M input
- SNMP (Gigabit Ethernet) management support
- Optional FAULT contact output
- ETS 302 307 standard compliant
- Supports subtitles
- Programmable RF output frequency 55~2150 MHz (1 Hz step)
- Programmable RF output level -80 ~ 0dBm (0.1dB step)
- White noise addition over modulated signal to have desired C/N ratio
- SNMP (10/100/1000 Ethernet) remote web-based LAN management
- Firmware upgradeable via Internet
- SNMP management support (GigE)
- 2 lines by 40 characters LCD display



ISDB-Tb





Overview

ISDB-Tb (Integrated Services Digital Broadcast – Terrestrial) is the modulation standard for over the air television in Brazil and some surrounding countries. It is based on the ARIB standard originally developed for Japan

Test modulators are often required to supply signals for digital signage, hospitality, and product test purposes. These modulators fully simulate the signals from the TV transmitters found in the real world. The main difference is that these are fully controllable by you and the transmitted signal is managed by a scheduling enabled control application. The control software manages the frequency (channel) and the other pertinent parameters.

This unit accommodates four single channel modulators with IP or ASI input. In effect you end up with an "Edge ISDB-Tb" device.

Applications

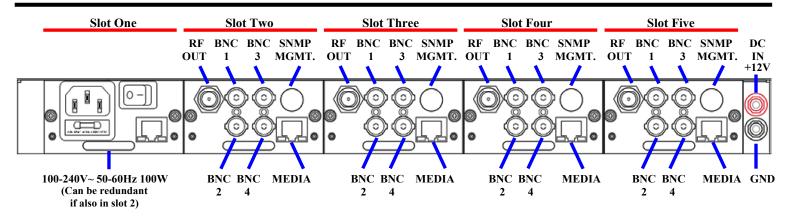
- Hospitality
- Product Testing



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

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

www.dveo.com



Specifications

Front Display	/Keys	 2 lines by 40 characters LCD 11 keys for Easy Control ENTER, EXIT, ARROW, and Slot Selection Keys 			
Slots		Five slots: One power supply module and four ISDB-Tb modulator modules			
TS Input					
Formats:		IP (with FEC), DVB-ASI			
Connectors:		75 ohm BNC, RJ-45			
ISDB-T	b RF Ou	tput			
Standa	ırd	d ARIB STD-B31 v1.6 compliant			
Mode		Mode I, Mode II, Mode III			
Code l	Rates	1/2, 2/3, 3/4, 5/6, 7/8 selectable			
Mappi	ng	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 Segr		nents 1 / 13 Segment			
Support TMCC (ISDB-T info &		Info & Generation IIP)	*ISDB-T direct modulation from DVB-ASI input is supported		
Audio C	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 Outpu module):		t (one per 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	attenuat	4dBm for -20dBFS digital audio contents when the audio ion menu is set to zero. The audio level can be attenuated e front panel audio configuration menu.			

0	rd	ering	Info
	1 U	CITIES	11110

- IP Mod ISDB-Tb 4ch
- IP Mod ISDB-Tb 4ch /FO with Optional FAULT Output
- IP Mod ISDB-Tb 4ch /FO with Optional Decoder module and LCD video preview screen
- IP Mod ISDB-Tb 4ch /PS replace one or more tuner modules with an additional power supply

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 Dec	coding Standard	ISO/IEC 14496-3:2009 (MPEG-4 HE AACv2)		
Redundar	ıcy	ASI or RF input with auto failover		
Display		Video and TS parameters displayed via "on screen" mode (see manual)		
Ethernet 1	Input/Output	10/100/1000 Mbps, MPEG over RTP/UDP FEC supported (Pro MPEG) (IP in)		
Managem	ent Ethernet	10/100/1000 Mbps SNMP, Web-browser manager		
Optional 1	FAULT Output	Contact Open on Fault		
Output Do Voltage	C Blocking	50V max		
Network I	Management	NMS supported through SNMP		
Local Ma	nagement	Front panel display LCD display for use with optional decoder module		
Unit		1 RU 19-inch rackmountable		
Operating	Temperature	+0 ~ +45	$+0 \sim +45$ °C (32 to 113°F)	
Storage T	emperature	-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		
Dimension	18	HxWxL: 1.7 x 19 x 13.6 inches (4.3 x 48.26 x 34.55 cm)		
Weight		14 lbs. (6.356 kg.)		
Conformi	ties FC RC	oHS∜ <u>Å</u>	FCC, RoHS CE Mark: Electromagnetic Compatibility Directive 2004/108/EC Low Voltage Directive 2006/95/EC	



www.dveo.com

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

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