



TRIVISION

Trivision Broadband and Telecom Inc

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Specification Sheet



General Description

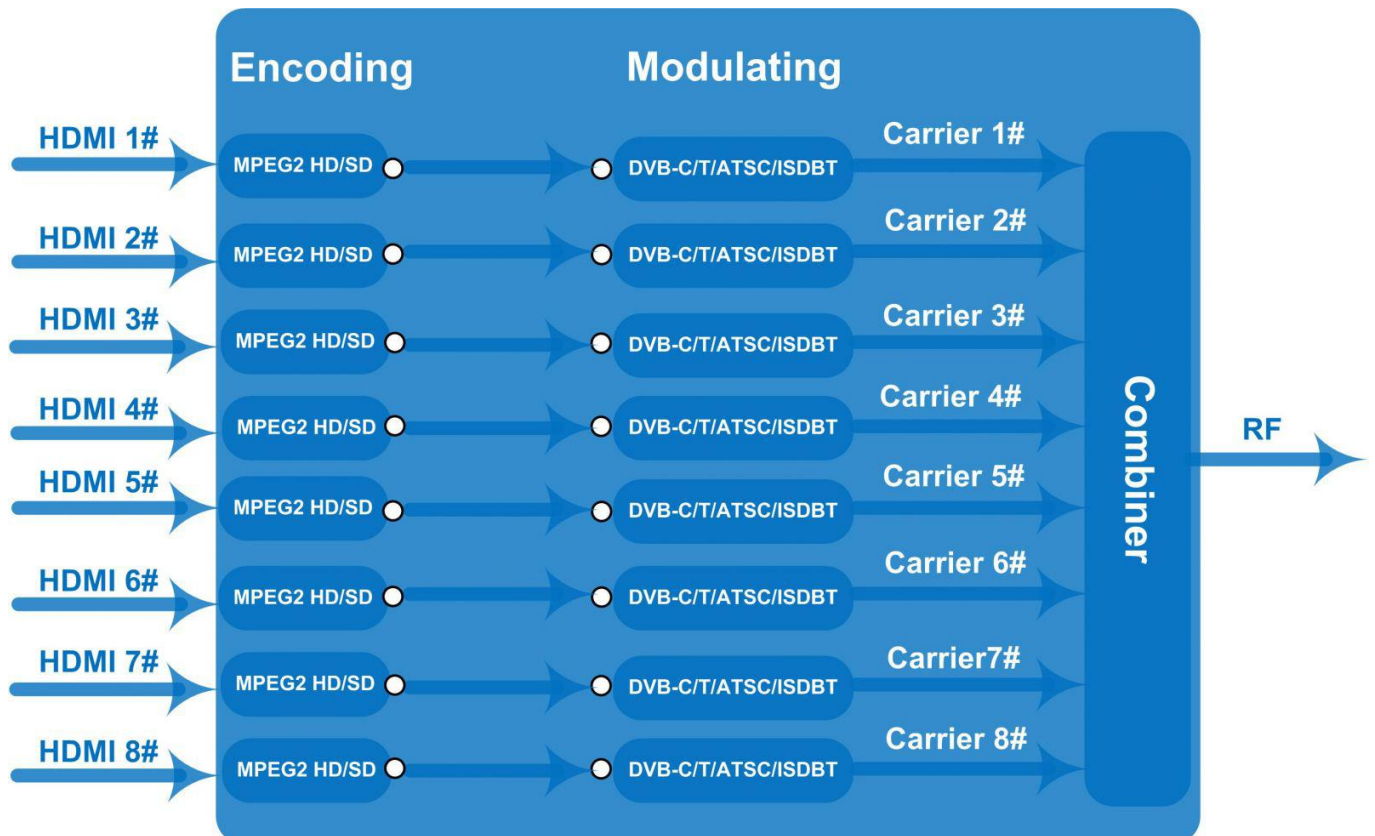
Trivision TBT-8HTQ encoder modulator is a all-in-one device integrating MPEG2 encoding and modulating to convert audio/video signals into DVB-C/T/ATSC/ISDB-T/DTMB RF out. It support 8 HDMI inputs and flexible configuration are making it extremely scalable, very reliable with high performance. The signals source could be from STB, satellite receiver, closed-circuit television cameras and antenna etc. Its output signal is to be received by TVs or STBs etc.

Key Features

- * Support 8 HDMI channels input
- * Support MPEG2 video encoding

- * Support 1080p/i, 720p, 576i, 480i video resolution
- * Support low latency(50~1000ms)
- * Support MPEGI layer 2, MPEG-2 AAC, and DD AC3 audio encoding
- * Support CC (Closed Caption), EIA 608
- * Support LCN (Logical Cluster Number)
- * DVB-C/T/ATSC/ISDB-T/DTMB RF out in one device, Modulation dynamic switching
- * Each channel support 1 DVB-C/T/ATSC/ISDB-T/DTMB output option
- * Control via web-based NMS, and easy updates via web

Inner Principle Chart



Specifications

HDMI Encoding Section		
Input	Interface	HDMI 8
Video	Encoding	MPEG2
	Input	Output
	480@59.94/60i	480@30p
	576@50i	576@25p
	720@50/59.94/60p	720@25/30p
	1080@50i	1080@25p
	1080@59.94/60i	1080@30p
	1080@50p	1080@25p
	1080@59.94/60p	1080@30p
	Bit-rate	2.000~20.000 Mbps
	GOP	1~60
	Rate Control	VBR
	Aspect Ratio	16 :9
Audio	Encoding	MPEGI layer 2,MPEG-2AAC, AC3
	Sample rate	48KHz
	Bit rate	MPEGI layer 2 (128kbps)
		MPEG-2 AAC (VBR)
		AC3 (128kbps)
DVB-C Modulator Section		
Standard	J.83A (DVB-C), J.83B	
MER	≥35dB	
RF frequency	100-1000MHz, 1KHz step	
RF output level	-48~ -10dBm, 1dB step	

Symbol rate	3.000~7.000Msps adjustable	
	J.83A	J.83B
Constellation	16/32/64/128/256QAM	64/ 256QAM
Bandwidth	8M	6M
DVB-T Modulator Section		
Standard	DVB-T COFDM	
Bandwidth	2M, 3M, 4M, 5M, 6M, 7M, 8M	
Constellation	QPSK, 16QAM, 64QAM	
Code rate	1/2, 2/3, 3/4, 5/6, 7/8	
Guard Interval	1/32, 1/16, 1/8, 1/4	
Transmission Mode	2K, 8K	
MER	≥35dB	
RF frequency	100-1000MHz, 1KHz step	
RF output level	-48~ -10dBm, 1dB step	
ISDB Modulator Section		
Standard	ARIB STD-B31	
Constellation	QPSK, 16QAM, 64QAM	
Guard Interval	1/32, 1/16, 1/8, 1/4	
Transmission Mode	2K, 4K, 8K	
Code rate	1/2, 2/3, 3/4, 5/6, 7/8	
RF frequency	100~1000MHz, 1KHz step	
RF output level	-48~ -10dBm, 1dB step	
ATSC Modulator Section		
Standard	ATSC A/53	
Constellation	8 VSB	
RF output level	-48~ -10dBm, 1dB step	
MER	≥35dB	

RF frequency	100~1000MHz, 1KHz step
DTMB Modulator Section	
RF frequency	100-1000MHz, 1KHz step
RF output level	-48~ -10dBm, 1dB step
Transmission Mode	S-0.8-4QAM-595, S-0.8-16QAM-595, M-0.4-16QAM-945V, M-0.6-16QAM-945V, M-0.6-64QAM-420V, M-0.6-64QAM-945V, M-0.8-16QAM-420V, M-0.8-16QAM-945V, M-0.8-64QAM-420V,
System	
Management	Web
Language	English
Upgrade	Web update
General	
Power supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
Dimensions	482*328*44.5mm
Temperature	0~45°C(operation), -20~80°C(storage)