



HDMI-TO-DVB MODULATOR

HDM-901C

HDMI CVBS Encoder -> DVB-C/T Modulator

- H.264/AVC
- HDMI
- IP / Ethernet
- DVB-C
- DVB-T/T2
- QAM

Model designation as per manufacturer reference

Overview

The VIZOBOX HDM-901C is an all-in-one encoder-modulator that converts HDMI inputs into adjacent DVB-C/T RF channels, integrating encoding, multiplexing and modulation in a single unit.

Key Features & Applications

- ✓ HDMI CVBS Encoder -> DVB-C/T Modulator
- ✓ Output: CATV –Coax RF signal
- ✓ Audio encoding MPEG1 Layer2
- ✓ Range: 1...899MHz but practically > FM range – use
- ✓ Country and CATV ranges of the receivers (TV)
- ✓ DVB-C QAM: 8MHz, Symbol Rate up to 9000
- ✓ DVB-T COFDM: 6,7, 8MHz max. 1/32 GI, FFT 2k/8k to 1080p60.
- ✓ Applications like CCTV, Media-Player, PC, ... to DVB-C/T entertainment, surveillance
- ✓ Input: 1x HDMI or FBAS/CVBS + Stereo
- ✓ MPEG4 AVC/H.264 Encoder up to 1080p60
- ✓ Nominal RF Output power max. 94dBμV, Full HD h.264 compatible in
- ✓ 113MHz for the lowest Center Frequency depending on
- ✓ 0...20dB adjustable attenuation, integrated combiner
- ✓ 16, 64, 128, 256QAM modulation modes
- ✓ Information channels in Hotels or public spaces by
- ✓ Wall mounting support control, hotels, digital signage,

Technical Specifications

Technical Specifications (subject to changes w/o further notice)	
Parameter	Symbol · Description · Unit · Remark Mechanical dimensions
Height	H · 35 · mm · Weight 400g
Width	W · 175 · mm
Depth	D · 135 · mm
HDMI IN	
SD	HD · Max encoding bitrate 25Mbps
720@50p,720@60p	Output – RF channel
Input format encoding	PAL,NTSC
1080@50i/p,1080@60i/p	h.264 max. 1080@60p
Audio codecs	MPEG-1 Layer2, AAC · 48kHz RF IN- & Output
Impedance	- · 75 · Ω
Connector	- · F-female · Internal combiner
Frequency	- · 50...950 · MHz
Output level	- · >100 · dBμV · Adjustable (0...20dB) Modulation Specification DVB-C Annex A/C
Modulation scheme	- · 16...256 · QAM
Bandwidth	BW · 8 · MHz

MER	- · ≥ 35 · dB · Typ.
Symbol Rate	SR · 5000...7000 · kS/s · (up to 9000)
Effective bit rate	- · ≤ 51.6 · Mbps · SR=7Mbaud, 256QAM
Standard:	ITU-T J.83A/C Modulation Specification DVB-T COFDM
Code Rate	FEC · 1/2, 2/3, 3/4, 5/6, 7/8
Bandwidth	BW · 6, 7, 8 · MHz
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FFT	2k / 8k
Parameter	Symbol · Min. · Max. · Unit
Supply Voltage	V · 12 · 14 · VDC
Supply Frequency	F · 49 · 51 · Hz
Power Consumption	C · 12 (12V/1A) · W
Operating Temperature	T _w · 0 · +50 · °C
Storage Temperature	T _s · -25 · +55 · °C
Operating Humidity	H · 0 · 45 · %



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