



ENCODER-MODULATOR

HDM-4230

Encoding Section

- H.264/AVC
- MPEG-2
- HDMI
- HD-SDI
- ASI
- IP/ Ethernet
- DVB-C
- DVB-T/T2

Model designation as per manufacturer reference

Overview

The VIZOBOX HDM-4230 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

- ✓ Integrated encoding, multiplexing & modulation
 - ✓ Multi-channel bouquet output
 - ✓ Web-based management & monitoring
- ✓ HDMI input to adjacent DVB-C/T RF channels
 - ✓ PSI/SI editing & PID remapping

Technical Specifications

Encoding Section Video	
Encoding	MPEG2, MPEG4 AVC/H.264
Input	HDMIx4 (or SDIx4) 1920*1080_60P, 1920*1080_50P, (-for MPEG4 AVC/H.264 only)
Resolution	1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i
Low Latency modes	Normal, mode 1 mode 2 Audio
encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, AC3 2.0(Optional)
Sample rate	48KHz
Bit rate	64kbps, 96kbps, 128kbps, 192kbps, 256kbps, 320kbps Modulator Output DVB-C
Standard	J.83A , J.83B, J.83C
MER	≥42dB
RF frequency	4 carriers combined output;30...960MHz, 1KHz step
RF output level	-30... -10dbm (77...97 dbμV), 0.1db step
Symbol rate	5.000...9.000MspS adjustable DVB-C Annex A (J.83A)
Constellation	16/32/64/128/256QAM
bandwidth	8MHz DVB-C Annex B (J.83B) US
Constellation	64QAM/ 256QAM
bandwidth	6MHz DVB-C Annex C (J.83C)
Constellation	64QAM/ 256QAM
bandwidth	6MHz DVB-T
Standard	EN300744
Bandwidth	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	≥42dB
RF frequency	30...960MHz, 1KHz step
RF Out	COFDM DVB-T out
RF output level	-30... -10dbm (77...97 dbμV), 0.1db step ATSC – upon request ISDB-Tb as well System
Local interface	LCD + control buttons
Remote management	Web NMS
output	ASI out (BNC type); 4*SPTS or 1 MPTS out (RJ45, 100Mb/s)
NMS interface	RJ45, 100Mb/s
Language	English General
Power supply	AC 100V...240V
Dimensions	420*400*44mm
Weight	4.5 kgs
Operation temperature	0...45°C
Specifications are subject to change without notice.	VIZOBOXHDM-42x0C EN 08.2019 V1.1 HDM-42x0 Test examples of latency measured These values are showing the progress from Encoding to Decoding Encoding Details Decoding Average Latency (ms)
Device	Resolution · Encoding Bit Rate · Low Latency Mode · Signal Source · Encoding Type
mpeg2	170
HDMI	
H.264	347.5 MODE 1
mpeg2	227.5
SDI	
H.264	367.5
DVB-C	1080i@50 · 14M
HD STB	mpeg2 · 222.5
HDMI	
H.264	395 MODE 2
mpeg2	240
SDI	
H.264	397.5
mpeg2	85.75
HDMI	
H.264	237.5 MODE 1
mpeg2	127.5
SDI	
H.264	295
DVB-C	720p@50 · 14M
HD STB	mpeg2 · 182.5
HDMI	
H.264	277.5 MODE 2
mpeg2	167.5
SDI	
H.264	325
mpeg2	310
HDMI	
H.264	600 MODE 1
mpeg2	330
SDI	

H.264	620
DVB-C	576i@50 · 14M
HD STB	mpeg2 · 270
HDMI	
H.264	610 MODE 2
mpeg2	280
SDI	
H.264	620 HDMI-Version SDI-version
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Vizobox Development GmbH

Hanauer Landstraße 126-128
60314 Frankfurt am Main, GERMANY
www.vizobox.de

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