



ENCODER-MODULATOR

HDM-12220C-T

Video Resolution

- 4K/UHD
- H.264/AVC
- MPEG-2
- HD-SDI
- ASI
- IP / Ethernet
- DVB-C
- DVB-T/T2

Model designation as per manufacturer reference

Overview

The VIZOBOX HDM-12220C-T 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

Input	12 HD-SDI inputs with CC 1 DVB-C (ATSC optional)Tuner for re-mux, F type interface 512 IP input over UDP and RTP, DATA1, RJ45—DVB-C RF out 256 IP input over UDP and RTP, DATA1, RJ45—DVB-T/ATSC RF out 192 IP input over UDP and RTP, DATA1, RJ45—ISDB RF out
Video Resolution	Input · 1920x1080_60p, 1920x1080_50p,1920x1080_60i, 1920x1080_50i, 1280x720_60p, 1280x720_50P, 720x480_60i, 720x576_50i
Output	1920x1080_60p, 1920x1080_50p,1920x1080_60i, 1920x1080_50i, 1440x1080_60i, 1440x1080_50i, 1280x720_60p, 1280x720_50P, 720x576_50p, 720x576_50i, 720x576_30p, 720x576_25p, 720x480_60p, 720x480_60i,720x480_30p, 720x480_25p,320x240_60p,320x240_50p, 320x240_30p, 320x240_25p,320x180_60p, 320x180_50p, 320x180_30p, 320x180_25p, 960x540_50i, 704x576_50i,704x480_60i, 640x576_50i 640x480_60i, 544x576_50i,544x480_60i,
Encoding	MPEG2 & MPEG4 AVC/H.264
Bit-rate	0.8...19Mbps for H.264 encoding 1...19Mbps for MPEG-2 encoding
Rate Control	CBR/VBR
GOP Structure	GOP B Frame: 0-3, GOP P Frame: 0-6
Advanced processing	De-interlacing, noise reduction
Audio Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, Dolby Digital AC3 (2.0) encoding (Optional), AC3 (2.0/5.1) passthrough
Sampling rate	48KHz
Bit-rate	64Kbps-320kbps each channel
Multiplexing	Maximum PID Remapping: 256 input per channel PID remapping (automatically or manually) Accurate PCR adjusting Generate PSI/ SI table automatically
Scrambling	Maximum simulcrypt CA (only DVB-C modulators) · 4
Standard	ETR289, ETSI 101197, ETSI 103197
Connection	Local/remote connection
Modulation	DVB-C · QAM Channel: 16 non-adjacent carriers output (maximum bandwidth 192MHz) Standard: EN300 429/ITU-T J.83A/B MER: ≥40db RF frequency: 50...960MHz, 1KHz step RF

	output level: -20...+10dbm, 0.1db step Symbol Rate: 5.0MSps...7.0MSps, 1kSps stepping
J.83A	J.83B (US-Norm)
Constellation	16/32/64/128/256QAM · 64/256 QAM
Bandwidth	8MHz · 6MHz
DVB-T	Standard EN300744
FFT mode	2K, 4K, 8K
Bandwidth	6M, 7M, 8M
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC	1/2, 2/3, 3/4, 5/6, 7/8
MER	≥42 dB
RF frequency	50...960MHz, 1KHz step
RF out	8 non-adjacent carriers output (maximum bandwidth 192MHz)
RF output level	-20...+10 dBm, 0.1db step
ISDB-T(b) and ATSC :	Data upon request
Stream output	1 ASI output as mirror of one of RF output carriers 16 MPTS output over UDP and RTP/RTSP as mirror of 16 DVB-C carriers, 8 MPTS output over UDP and RTP/RTSP as mirror of 8 DVB-T/ATSC carriers(Optional) 6 MPTS output over UDP and RTP/RTSP as mirror of 6 ISDB-T carriers(Optional) 1x 1000M Base-T Ethernet interface
System function	Network management: Web Interface, English language
Miscellaneous	Dimension (W×L×H) · 482mm×440mm×44mm
Environment	0...45°C (work); -20...80°C (Storage)
Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz



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